CITY OF MANCHESTER
INCORPORATED JUNE 1846

Compliments of

James E. Dodge

City Auditor

146802
352.0742 b
M31
1912

SIXTY-SEVENTH ANNUAL REPORT

OF THE

RECEIPTS AND EXPENDITURES

OF THE

CITY OF MANCHESTER

NEW HAMPSHIRE

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1912

TOGETHER WITH

OTHER ANNUAL REPORTS AND PAPERS RELATING TO THE AFFAIRS OF THE CITY

MANCHESTER, N. H.
PRINTED BY JOHN B. CLARKE CO.
1913

MANCHESTER CITY GOVERNMENT, 1912.

Mayor.

EDWARD C. SMITH.....Office, City Hall

Chosen at biennial election in November, 1910. Salary, $3,000 per annum, payable monthly. (Act of June, 1848, section 1. Chapter 223, Laws of 1883. Chapter 203, Laws of 1907. Public Statutes, chapter 47.)

Mayor's Clerk and Stenographer.—John J. McAllister, Jr., 161 Pine street.

Aldermen.

Ward 1.	Charles W. Richards, 47 Market street.
Ward 2.	Albert L. Clough, 181 Walnut street.
Ward 3.	Victor W. Roy, 18 Malvern street.
Ward 4.	William H. Morgan, 400 Merrimack street.
Ward 5.	Richard J. Barry, 232 Lake avenue.
Ward 6.	Maurice Watson, 193 Massabesic street.
Ward 7.	Herbert A. Salls, 4 Pleasant street.
Ward 8.	*Arthur W. Dinsmore, 48 Dover street.
Ward 9.	Stephen T. Martell, 292 Bartlett street.
Ward 10.	Peter J. Charron, 615 Harvard street.

Salary $3 per meeting, amount not to exceed $200 annually.

Board of Common Council, 1912.

Ernest A. Bournival, President, 286 Pearl street.

Ward 1.

Denis G. Cronin, 65 Hollis street (rear).
Charles W. Bailey, 56 Water street.
William A. Burlingame, 30 Stark street.

Ward 2.

Andrew S. Fantom, 676 Maple street.
Alfred K. Hobbs, 29 Appleton street.
Frank B. Stevens, 144 Blodget street.

*Alderman Dinsmore died August 6, 1912.

WARD 3.

Gustave A. Bergquist, 13 Jane street.
Ernest A. Bournival, 286 Pearl street.
Charles F. McDonald, 24 Nashua street.

WARD 4.

Edward P. Morrill, 296 Laurel street.
John L. Wade, 103 Hubbard street.
Ernest A. Merrill, 524 Merrimack street.

WARD 5.

George D. Burns, 192 Green street.
John F. Kane, 246 Grove street.
Michael J. McNulty, 179 Green street.

WARD 6.

Fred H. Bates, 233 Mammoth road.
Louis A. Chatel, 390 Cedar street.
Charles S. Currier, 346 Lake avenue.

WARD 7.

Ralph S. Nelson, 32 Market street.
Frank R. Vose, 35 West Merrimack street.
James M. Yuill, 84 West Merrimack street.

WARD 8.

John F. Donnelly, 36 Prince street.
Clarence D. McKean, 50 Main street.
Fred Lange, 23 Boynton street.

WARD 9.

Frank C. Provost, 564 Cartier street.
Francois X. Gagne, 291 Bartlett street.
Charles A. Picard, 424 Bartlett street.

WARD 10.

Eugene C. Legare, 99 Beech street.
Thomas F. Riordan, 127 Cypress street.
Edward F. Tate, 77 South Elm street.

Clerk of the Common Council.

Patrick F. Vaughan, 35 Hospital avenue.

Salary, $100. (General Laws chapter 46 sections 7-9. City Laws and Ordinances, page 33, chapter 6, section 11.)

City Clerk.

Arthur W. Phinney.....Office, City Hall

Salary, $2,000. (Laws, 1899, chapter 6.) Chosen in January, biennially, by board of aldermen. Residence, 370 Hanover street. Also clerk of all committees of the board of aldermen.

City Clerk's Clerks.

Eva G. Jones.....City Clerk's Office, City Hall
Malvina B. Levesque.....City Clerk's Office, City Hall

City Auditor.

James E. Dodge.....Office, City Hall

Salary, $2,000. Appointed by mayor and approved by board of aldermen in January, biennially. (Laws of 1889, chapter 287. City Ordinances, pages 44, 71, 83-88, 173.) Residence River road north.

Auditor's Clerk.

Lizzie M. Cogswell.....Auditor's Office, City Hall

City Treasurer.

Fred L. Allen.....Office, City Hall

Salary, $2,000. Elected by board of aldermen in January, biennially. (Act of January, 1897, chapter 198.) Residence, 33 Walnut street.

Treasurer's Clerk.

Myrtie G. Lang.....Treasurer's Office, City Hall

Collector of Taxes.

George E. Morrill.....Office, City Hall

Salary, $2,000. Elected by mayor and aldermen before May 1, biennally. (Act of July, 1851. Act of June, 1859, section 6. Act of 1897, chapter 198. Public Statutes, chapter 43. City Laws and Ordinances, chapter 33.) Residence, 740 Chestnut street.

Collector's Clerk.

Mabel L. How.....Collector's Office, City Hall

Deputy Collectors of Taxes.

Edwin C. Paul.....Collector's Office, City Hall
Abraham S. Rich.....Collector's Office, City Hall
Denis Vigneault.....Collector's Office, City Hall

Salary, $1,000. Appointed by tax collector with approval of mayor and aldermen. (City Laws and Ordinances, chapter 33, section 3.)

City Solicitor.

Oscar F. Moreau.....Office, Kennard

Salary, $1,200. Elected by board of aldermen in January, biennially. (Act of 1897, chapter 198.) Residence of Moreau, 450 Notre Dame ave.

City Messenger.

James R. Ferson.....Office, City Hall

Salary, $1,200. Elected by board of aldermen in January, biennially. (City Laws and Ordinances, chapters 4, 6.)

Board of Aldermen.

STANDING COMMITTEES.

On Accounts.—Charron, Richards, Martel.
On Bills on Second Reading.—Barry, Roy, Morgan.
On City Farm.—Barry, Dinsmore, Roy.
On Claims.—Watson, Clough, Salls.
On Cemeteries.—Clough, Watson, Morgan, Richards, Dinsmore.
On Enrollment.—Martel, Richards, Roy.
On Finance.—Mayor, Morgan, Martel.
On Fire Department.—Morgan, Barry, Clough.
On Lands and Buildings.—Roy, Charron, Salls.
On Licenses.—Salls, Watson, Richards.
On Lighting Streets.—Salls, Barry, Clough.
On Military Affairs.—Clough, Charron, Salls.
On Public Health.—Watson, Morgan, Barry.
On Setting Trees.—Richards, Watson, Roy.
On Sewers and Drains.—Dinsmore, Charron, Martel.
On Streets.—Richards, Salls, Dinsmore.

Board of Common Council.

STANDING COMMITTEES.

No. 1. On Central Department, Auditor's, Engineer's and Department of Taxes.—Messrs. Nelson, Bergquist, Merrill, Burns, Provost.

No. 2. On Street and Sewer Department.—Messrs. Currier, McDonald, Legare, Cronin, Stevens.

No. 3. On School Department.—Messrs. Hobbs, Burlingame, Riordan, McKean, Bournival.

No. 4. On Fire Department and Hydrant Service.—Messrs. Bergquist, Vose, Gagne, McNulty, Bates.

No. 5. On Public Buildings and Public Places.—Messrs. Geoffrion, Picard, Bailey, Wade, Tate, Burns.

No. 6. On Health, Police Department, Public Library, Patriotic, Charitable, and Philanthropic.—Messrs. Lange, Chatel, McDonald, Cronin, Yuill.

No. 7. On Lighting Streets.—Messrs. Morrill, Fantom, Donnelly, Kane, Burlingame.

Committee on Finance.

President of the Common Council, chairman, *ex officio*, and Councilmen Nelson, Currier, Hobbs, Bergquist, Geoffrion, Picard, Lange, Morrill.

Committee on Enrollment.

Councilmen Chatel, Tate, Wade.

City Physician.

John C. O'Connor, M. D.....Residence, 324 Amherst St.
Office, 12 Cilley Building

Salary, $1,200. Elected by board of aldermen in January, biennially. (Act of 1897, chapter 198. City Ordinances, chapter 9, sections 29, 30.)

Engineer.

Samuel J. Lord.....Office, City Hall

Salary, $3,000. Chosen by board of public works, April, 1911, term six years. (Chapter 359, Laws of 1911.)

ENGINEER'S ASSISTANTS.

Harrie M. Young.
George M. Wales.
Felix A. Lepage.
Henry A. Worthen.
Alfred T. Dodge.
Lawrence O'Connor.

Water Commissioners.

(Chapter 70, Laws of 1871. City Ordinances, chapter 36, and Laws of 1891, chapter 26, page 319, act approved March 31, 1891. Chapter 183, Laws of 1893.) One commissioner elected annually by mayor and aldermen in the month of September, for a term of six years. Office at court house, corner Franklin and West Merrimack streets. Telephone at office and at pumping station.

The Mayor, *ex officio.*
Charles H. Manning, chairman. Term expires January, 1913.
William Corey. Term expires January, 1917.
Edgar J. Knowlton. Term expires January, 1916.
Charles M. Floyd. Term expires January, 1914.
Perry H. Dow. Term expires January, 1915.
Robert E. McKean. Term expires January, 1918.

Clerk of Board of Water Commissioners.

Edgar J. Knowlton.....Office, Court House, Franklin Street

Chosen by Water Commissioners annually.

Superintendent of Water-Works.

James H. Mendell.....Office, Court House, Franklin Street

Salary, $2,500. Chosen by Water Commissioners annually. Residence, 1019 Union Street.

Engineer at Old Pumping Station.

Jerome J. Lovering. Salary, $700, rent, fuel, and use of land.

Engineer at New Pumping Station.

C. A. Whitney, $2.50 per day, rent, and fuel.

Justice of the Police Court.

Harry E. Loveren, court room at police station, corner Manchester and Chestnut streets.

Salary, $1,500. Appointed by the governor with the advice of the council. (General Laws, chapter 215; chapter 163, sections 17, 18, 19, of the Laws of 1878, as amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.)

Associate Justice of the Police Court.

Frank C. Livingston. Salary, $300 per annum.

Appointed by the governor with the advice of the council. (Chapter 215, General Laws, section 2-14. Public Statutes, chapter 211. Chapter 296, Laws of 1893.)

Clerk of the Police Court

John C. Bickford. Salary, $600.

Appointed by the justice of the police court. (Chapter 163, sections 17-19. General Laws, amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.)

Police.

The members of the police are appointed by the police commissioners, and hold their commissions during good behavior. They are, by virtue of their appointment, constables and conservators of the peace, and their jurisdiction extends throughout the city. (Chapter 253, section 5, General Laws; chapter 303, Laws of 1887; chapter 202, Laws of 1893.) Police station at the corner of Chestnut and Manchester streets.

Police Commissioners.

See chapter 202, Laws of 1893.

Thomas R. Varick, chairman. Term expires January, 1916.
Peter A. Farrell, clerk. Term expires January, 1914.
George A. Blanchet. Term expires January, 1918.

Chief of Police.

Michael J. Healy.....Office at Police Station

Salary, $3,000. Residence, 304 Central street. Telephone at house and office.

Deputy Chief of Police.

John F. Cassidy.....Office at Police Station

Salary, $1,800. Residence, 569 Hanover street.

Captain of the Watch.

Thomas E. Steele. Salary, $3.50 per day. Residence, 253 Walnut street.

Sergeants.

Peter Callaghan. Salary, $3.25 per day. Residence, 1017 Hayward street.

John T. O'Dowd. Salary, $3.25 per day. Residence, 222 Bridge street.

John J. Lynch. Salary, $3.25 per day. Residence, 1436 Elm street.

Inspectors.

Clifton B. Hildreth. Salary, $3.25 per day. Residence, 386 Walnut street.

James J. Hampton. Salary, $3.25 per day. Residence, 613 Summer street.

Electrician.

Edward H. McQuaid. Salary, $3.25 per day. Residence, 412 Cedar street.

Clerk and Stenographer.

John F. Griffin. Salary, $3.25 per day. Residence, 868 Union street.

Patrolmen.

Adler, Leonard J.
Badger, John C.
Bean, Randall W.
Benoit, Aurel N.
Brown, John G.
Brown, Thomas F.
Conlon, Arthur J.
Connor, John J.
Coolidge, Edgar L.
Corbett, Michael H.
Dunn, James F.
Dustin, Frank J.
Enright, Arthur F.
Filmore, William L.

Foye, William F.
Gauvin, Napoleon J.
Gorey, Joseph.
Graf, Oscar J.
Hackett, James.
Hadlock, Sherman J.
Healy, John D.
Jennings, Peter J.
Kenney, George H.
Lovejoy, George A.
Maher, William.
Manning, Thomas E.
Marden, Frank W.
Maynard, Andrew.
McGrath, Matthew F.
Moody, Dana H.
Moher, William M.
Moriarty, Mortimer J.
Moran, John F.
O'Leary, John D.
O'Malley, John F.
Pennett, John E.
Pitman, J. Foster.
Potts, John.
Riorden, George P.
Robitaille, Albert C.
Rourke, Martin W.
Russell, Albert.
Scannell, Frederick S.
Scannell, Walter B.
Shea, Jeffrey.
Sheehy, Patrick.
Smith, John F.
Smith, Roswell J.
Somers, Elmer E.
Stewart, William J.
Sullivan, Florence.
Sweeney, James.
Ware, Philip T.
Welch, John T.
Whalen, Michael J.

Salary, $3.00 per day for regulars; $2.75 and $2.50 per day for special.

Janitor of Station.

Frank P. Wiggin. Salary, $2.00 per day. Residence, 435 Cedar street.

Matron.

Miss A. B. Brown. Salary, $425 per annum. Residence, 228 Merrimack street.

School Committee.

Chosen at the biennial election in November, 1910; mayor and president of the common council members, *ex officio*. The board of school committee choose the clerk of the board, the superintendent of public instruction, the truant officer, and the teachers in the public schools, and determine their salaries. They have charge of the purchase of free text-books and other supplies, and are limited by the appropriations of the city councils. The salary of the committee is $25 each per year.

Edward C. Smith, mayor, *ex officio*, chairman.
Ernest A. Bournival, president of Common Council, *ex officio*.

Ward 1. Ernest W. Wiesner, 19 Market street.
Ward 2. Allan M. Wilson, 293 Myrtle street.
Ward 3. Frank L. Downs, 108 Ash street.
Ward 4. William A. Phinney, 450 Manchester street.
Ward 5. John F. Lee, 224 Central street.
Ward 6. Harry L. Davis, 552 East Spruce street.
Ward 7. Edward B. Woodbury, 1 Pleasant street.
Ward 8. Frank A. Cadwell, 142 Douglas street.
Ward 9. Nazaire E. Biron, 544 Main street.
Ward 10. Francis X. Lyons, Goffe's Falls.

Edward B. Woodbury, vice-chairman of the board.
Charles H. Martel, clerk of the board.

Superintendent of Schools.

Charles W. Bickford.....Office, City Hall

Elected by members of school board annually in month of June. Salary, $3,000.

Superintendent's Clerk.

Fannie L. Sanborn.....Residence, 277 Laurel street

Salary, $600.

Truant Officer.

Curtis W. Davis.....Office, City Hall

Elected by members of school board annually in month of June. Salary, $1,200.

Assistant Truant Officer.

Harry J. Woods.....Office, City Hall

Elected the same as truant officer. Salary, $900.

Assessors.

(Chapter 314, Laws of 1903.) Establishing a board of three assessors. Board elected by the common council in December, 1904, one member for two years, one member for four years, and one member for six years, from January 1, 1905. Thereafter biennially in the month of January, beginning in 1907, the common council shall elect one member for six years. Salary, $1,500.

Joseph H. Geisel. Term expires January, 1917.
Joseph O. Tremblay. Term expires January, 1915.
William P. Farmer. Term expires January, 1913.
Joseph O. Tremblay, chairman.

CLERKS OF ASSESSORS.

Arthur W. Rowell.....Office, City Hall
Harry J. Briggs.....Office, City Hall

Inspectors of Checklists.

One in each ward chosen at the biennial election in November. Compensation, $3.00 per day for each day actually employed. Office, City Hall. (Laws of 1878, chapter 163, sections 5, 6, 7, 9, 10, 11, 12, 13, 14, 16, and City Ordinances, chapter 14, section 9.)

Ward 1. Karl A. Klaubert, 37 Water street.
Ward 2. Charles B. Tucker, 748 Pine street.
Ward 3. Arthur W. Rowell, 5 Nashua street.
Ward 4. Frank P. Collins, 418 Laurel street.
Ward 5. Daniel McCarthy, 29 Cedar street.
Ward 6. Patrick F. Vaughan, 35 Hospital aveuue.
Ward 7. Lyman H. Burbank, 12 Middle street.
Ward 8. Daniel A. McDonnell, 5 Parker avenue.
Ward 9. Horace Martel, 383 Bartlett street.
Ward 10. Majorique J. Florand, 239 Clay street.
Charles B. Tucker, chairman.
Arthur W. Rowell, clerk.

Overseer of the Poor.

Chosen at biennial election in November. Compensation, $1,200 per annum and an allowance of $150 for traveling expenses. (Laws of 1909, chapter 291.)

Joseph L. Boudreau.....Office, City Hall
Residence, 131 Orange street

Overseer's Clerk.

Juliette E. Melancon. Salary, $600 per annum.

Board of Health.

(City Ordinances, chapter 14, section 10, as amended. Laws of 1885, chapter 165; Laws of 1887, chapter 227; Public Statutes, chapters 108, 109, 110.) One member appointed by the mayor in January of each year, to hold office for term of three years. Salary, $200 each per annum. Office, Court House, West Merrimack, corner of Franklin street.

William K. Robbins. Term expires first Monday in February, 1913.

John B. Cavanaugh. Term expires first Monday in February, 1914.

Gustave Lafontaine, M. D. Term expires first Monday in February, 1915.

William B. Blake, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

John F. Looney, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

Joseph X. Duval, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

Carl O. Seaman, plumbing and milk inspector. Office, Court House, Merrimack, corner of Franklin street.

M. Alma Fracker, office clerk.

Gustave Lafontaine, M. D., president.

William K. Robbins, clerk.

Fire Department.

The chief engineer and four assistant engineers are chosen biennially in the month of January, by a majority of the city councils in convention. The salary of the chief engineer is $2,200 per annum; the assistant engineers, each $300 per annum. They exercise the powers and perform the duties of firewards. The said engineers constitute the board of engineers, and elect a clerk whose compensation is $75 a year. The annual compensation of the members of the several hook and ladder, hose, steam fire engine and chemical companies is as follows: Permanent captains, each $1,100 per annum; permanent engineers, each $1,050; other permanent men of companies, $1,000; lieutenants, each $198; clerks, each $198; call engineers, each $213; all other members, each $188; payable in semi-annual payments, on the first of January and July. (Laws of 1870, chapter 99. General Laws, chapter 106. City Ordinances, chapters 6 and 11.) Members and officers of each company are appointed by the board of engineers.

Chief Engineer.

Thomas W. Lane.....Office, Central Station, Vine street

Residence, 1937 Elm street. Telephone at house and office.

ASSISTANT ENGINEERS.

Edwin W. Merrill. John F. Seaward.
Arthur Provost. Thomas F. Fitzsimmons.
Edwin W. Merrill, Clerk.

Trustees of City Library.

(Law of 1854, chapter 1588. See contract with Manchester Atheneum, printed on pages 107 and 108 of City Report for fiscal year ending January 31, 1855.) Board of seven trustees, one of whom is elected by aldermen and board of trustees in joint convention in September, annually. Term of service, seven years, no salary. Two additional trustees, mayor, and president of common council, *ex officio.*

Frank P. Carpenter, Elm, corner West North street. Term expires October 1, 1916.

Herman F. Straw, 607 Chestnut street. Term expires October 1, 1914.

Walter M. Parker, 1883 Elm street, corner of Webster. Term expires October 1, 1913.

Roger G. Sullivan, 168 Walnut street. Term expires October 1, 1919.

Henry W. Boutwell, 587 Union street. Term expires October 1, 1918.

William P. Farmer, Candia Road. Term expires October 1, 1917.

Edwin F. Jones, 15 High street. Term expires October 1, 1915.

Edward C. Smith, *ex officio.*

Ernest A. Bournival, *ex officio.*

Edwin F. Jones, clerk.

City Library.

Franklin street, corner of Dean avenue. Open from 10 A. M. to 8 P. M. Saturdays to 9 P. M. Sundays, 11 A. M. to 5 P. M.

Librarian.

F. Mabel Winchell, 593 Union street. Salary, $1,000 annually. Elected by the trustees of library.

Board of Public Works.

The board of public works is composed of three citizens of the city of Manchester. The mayor shall, by virtue of his office, be a member of and chairman of the board. Not more than two members can be of the same political party. In April, 1912, the board of aldermen shall elect a member of the board for the term of six

years, and a member thereafter in the month of April in every sixth year. The member of the board of street and park commission whose term expires April, 1912, is made a member of the board until that date. In April, 1914, the board of aldermen shall elect a member of the board for the term of six years, and a member thereafter in the month of April in every sixth year. The member of the board of street and park commission whose term expires April, 1914, is made a member of the board until that date. The board shall elect a civil engineer and fix his compensation, as agent of said board, for a term of six years from the first Tuesday of April, 1911. Said board has full charge, management, and control of the building, constructing, repairing, and maintaining of all the streets, highways, lanes, sidewalks, bridges, public sewers and drains, and public parks and commons. (See Laws of 1911, chapter 359.) Office, City Hall building. Open from 8 to 12 A. M., 2 to 5 P. M. Regular meeting of the board at 2 o'clock P. M. on the third Tuesday of each month. Salary of each member, except the chairman, $750 per year, payable monthly.

Edward C. Smith, *ex officio*, chairman.
William McElroy. Term expires April, 1918.
Byron Worthen. Term expires April, 1914.
Samuel J. Lord, civil engineer and agent. Salary, $3,000 per year.

City Weigher.

Gilbert Lyons. Office, city scales, Franklin street.

Elected biennially in board of aldermen. Salary, $600 per annum; all fees for weighing returned monthly to city treasurer with sworn statement.

Sealer of Weights and Measures.

John E. Piller, 81 Parker street.

Elected biennially in January by board of aldermen. Paid by fees. (Section 25, chapter 43, and chapter 125, Public Statutes.)

Trustees of Cemeteries.

(City Ordinances, chapter 39, sections 1, 2, 3, 4.) Two trustees elected by board of aldermen in January, annually, for the term of four years. Subtrustees appointed by board of trustees.

J. Adam Graf, 827 Beech street. Term expires 1913.
William H. Maxwell, 940 Chestnut street. Term expires 1915.
Fred O. Parnell, 327 Orange street. Term expires 1914.
Charles F. Read, 48 Water street. Term expires 1911.
Frank C. Livingston, 221 Orange street. Term expires 1912.

Charles E. Stearns, 329 Front street. Term expires 1915.
Edwin F. Jones, 15 High street. Term expires 1916.
Harrie M. Young, 277 Concord street. Term expires 1916.
Fred L. Allen, clerk and treasurer, 567 Beech street.

Subtrustees of Cemeteries.

VALLEY CEMETERY.

Alderman William H. Morgan, chairman; Alderman Dinsmore; Messrs. Frank C. Livingston, Charles F. Read, and Fred O. Parnell. Clerk, Frank C. Livingston.

PINE GROVE CEMETERY.

Alderman Albert L. Clough, chairman; Alderman Watson, Messrs. J. Adam Graf, Harrie M. Young, and Edwin F. Jones. Clerk, Edwin F. Jones.

AMOSKEAG CEMETERY.

Alderman Charles W. Richards, chairman; Messrs. Charles E. Stearns and William H. Maxwell. Clerk, William H. Maxwell.

SUPERINTENDENT OF PINE GROVE CEMETERY.

John Erskine. Office and residence at the cemetery.

SUPERINTENDENT OF VALLEY CEMETERY.

Eugene C. Smith. Office at the cemetery; residence, 272 Mast street.

SUPERINTENDENT OF AMOSKEAG CEMETERY.

George C. Harwood. Residence, Amoskeag.

TRUSTEES OF CEMETERY FUND.

Norwin S. Bean. Term expires January, 1920.
Charles H. Anderson. Term expires January, 1915.
Edward C. Smith, *ex officio*.
Fred L. Allen, treasurer.

Superintendent of Public Buildings and Inspector of Buildings.

Created by chapter 284 of the Session Laws of 1911. Elected in the month of April by board of aldermen for a term of four years. Salary, $2,000, and $200 for traveling expenses.

George H. Hammond*.....Office, City Hall
Harry S. Foster*.....Office, City Hall

*Hammond resigned June 15, 1912, and Harry S. Foster elected.

Inspector's Clerk.

Park J. Stewart.....Inspector's Office, City Hall

Inspector's Assistant.

Harry S. Foster†.....Inspector's Office, City Hall
J. B. Lariviere†.....Inspector's Office, City Hall

Inspectors of Oil.

Harvey B. Sawyer, 149 Bowman street.
Martin Moll, 45 Barr street.

(Public Statutes, chapter 129, sections 25-34. City Ordinances, chapter 25.) Paid by fees, ¼ of one percent per gallon.

Board of Examiners of Plumbers.

William K. Robbins, president. Term expires November 1, 1913.
Samuel J. Lord, clerk, *ex officio.*
Christian L. Wolf. Term expires November 1, 1914.

Appointed by mayor.

Sinking Fund Commissioners.

William McElroy, chairman.
Fred L. Allen, clerk and treasurer.
Charles H. Manning.

Moderators.

Elected biennially. (General Laws, chapter 31, sections 3, 9; chapter 36, section 9; chapter 44, section 7. City Ordinances, page 18. See Public Statutes relating to towns and cities.)

Salary, $15.00, payable at expiration of term.
Chosen at biennial election in November.

Ward 1. Donald McIntyre.
Ward 2. William B. Burpee.
Ward 3. George E. Prime.

†Lariviere appointed inspector in place of Foster June 16, 1912.

Ward 4. Henry B. Fairbanks.
Ward 5. Martin E. Sullivan.
Ward 6. Almus W. Morse.
Ward 7. Herbert E. Richardson.
Ward 8. Robert E. McKean.
Ward 9. Charles C. Caron.
Ward 10. John A. Kane.

Ward Clerks.

Elected biennially. (General Laws, chapter 44, sections 10, 12. City Ordinances, page 18. Public Statutes relating to towns and cities.)

Salary, $20.00, payable at expiration of term.

Ward 1. Frank X. Foster.
Ward 2. Frederick S. Nutting.
Ward 3. Fred L. Richardson.
Ward 4. Henry A. Worthen.
Ward 5. William Lane.
Ward 6. Charles H. Martel.
Ward 7. Charles E. Bartlett.
Ward 8. Frank H. Cadwell.
Ward 9. Ludger D. Dancose.
Ward 10. Almon A. Oviatt.

Selectmen.

Elected biennially. (General Laws, chapter 1, section 27; chapter 12, section 6; chapter 40, sections 2, 3; chapter 109, section 27; chapter 213, section 1. City Ordinances, page 18. Public Statutes relating to towns and cities.)

Salary, $15.00, payable at expiration of term.

WARD 1.

Dana A. Emery. Timothy L. Shine.
Thomas J. Nutt.

WARD 2.

Samuel W. Shepherd. James R. Mason.
Frank J. Abbott.

WARD 3.

Edmond St. Jean. Claus E. Lagerquist.
William A. Ward.

WARD 4.

Herman B. Neal. Adolphe N. Paul.
Frederick N. Walker.

WARD 5.

John F. Kelley. James P. Mahoney.
Patrick J. Ryan.

WARD 6.

Alvin G. Bean. William Howe.
William S. Gregoire.

WARD 7.

John J. Carroll. Webster Connell.
William E. Cowie.

WARD 8.

Frederick W. Hoffman. Robert Lange.
David T. Trahan.

WARD 9.

Arthur O. Beaudin. Edmond L. Ledoux.
Adelard Lambert.

WARD 10.

John McCarty. Mark B. Flanders.
Frederick Poulin.

REPORT OF THE CITY AUDITOR.

REPORT OF THE CITY AUDITOR.

To the Board of Mayor and Aldermen:

GENTLEMEN:—The auditor herewith submits to your honorable body his report, giving a tabular statement of the receipts and expenditures for the year 1912, and a detailed statement of the expenses of each appropriation during the year.

Respectfully,
JAMES E. DODGE,
City Auditor.

Report of the City Treasurer for the Year 1912.

		DR.
Temporary loans in anticipation of taxes, 1912:		
Merrimack River Savings Bank	$75,000.00	
Manchester Savings Bank	175,000.00	
Old Colony Trust Company	50,000.00	
		$300,000.00
Sale of bonds:		
Merrimack River Savings Bank, $100,000 3½% Improvement bonds @ 97	$97,000.00	
Accrued interest	233.30	
Strafford Savings Bank of Dover, N. H., $105,000 3½% fire-alarm bonds @ 97	101,850.00	
Accrued interest	204.14	
Premium	35.00	
		$199,322.44
Trustees of Sinking Fund:		
For the payment of water bonds maturing January 1, 1912		$100,000.00
City of Manchester, notes payable June 30, 1913		$12,850.00
A. W. Phinney, city clerk:		
Dog licenses	$2,789.87	
Sewer licenses	3,086.75	
Rent of tenements	94.63	
Show licenses	687.00	
Rent of city hall	18.00	
Junk dealers' licenses	304.00	
Lunch cart licenses	30.00	
Job team and hacking licenses	48.50	

Employment bureau	$40.00	
Rent of city farm	1,020.00	
Billiard and pool and bowling licenses	2,466.75	
Rent of Battery building	228.33	
Pop-corn licenses	23.00	
Registration	358.00	
Fees, intention of marriage	827.00	
mortgages	216.76	
conditional sales	86.14	
corporations	37.75	
miscellaneous records	62.75	
writs	4.60	
assignment of wages	14.20	
partnerships	4.75	
discharges	57.50	
		$12,506.28
Police department:		
M. J. Healy, fines and costs	$1,192.18	
John C. Bickford, fees	1,685.03	
		$2,877.21
Pine Grove cemetery:		
J. H. Erskine, superintendent, care of lots	$8,671.15	
F. L. Allen, treasurer, sale of lots	3,030.59	
		$11,701.74
Merrill cemetery:		
J. H. Erskine, superintendent, care of lots	$60.00	
F. L. Allen, treasurer, sale of lots	11.88	
		$71.88
Valley cemetery:		
Eugene C. Smith, superintendent, care of lots	$1,982.00	
F. L. Allen, treasurer, sale of path	15.00	
		$1,997.00
Amoskeag cemetery:		
Geo. C. Harwood, superintendent, care of lots		$14.00
State of New Hampshire:		
Insurance tax	$4,412.62	
Railroad tax	56,961.58	
Savings bank tax	91,574.68	
Literary fund	4,550.56	
		$157,499.44
New Hampshire State License Commission:		
Balance licenses, 1911	$2,479.84	
Licenses, 1912	51,362.19	
		$53,842.03

City scales:		
Gilbert Lyons		$300.05
Water-works department:		
Charles K. Walker, superintendent	$28,768.84	
James H. Mendell, superintendent	117,842.75	
		$146,611.59
Board of Health:		
Milk licenses	$453.00	
Board of patients at Isolation hospital	702.58	
		$1,155.58
Interest on bank deposits:		
Second National Bank, Boston, Mass	$774.39	
Merchants National Bank	2,529.00	
George E. Morrill, collector	379.64	
		$3,683.03
School department:		
C. W. Bickford, superintendent, forfeitures, evening schools	$274.45	
Tuition	1,948.20	
Sale of text-books	117.38	
H. L. Davis, clerk, forfeitures, evening schools	37.66	
		$2,377.69
Board of Public Works:		
Manchester Street Railway	$23,596.93	
Miscellaneous	3,812.54	
		$27,409.47
Miscellaneous receipts:		
Overdrafts—		
Janitors, evening schools	$34.50	
Chas. Boisclair, health department	4.00	
Joel Daniels, repairs of public buildings	2.34	
Geo. A. Campbell & Co., fire department	12.00	
Manchester Dry Goods Co., furniture and supplies	4.42	
Boston & Maine R. R., Pine Grove cemetery	3.00	
James W. Hill Co., health department	9.00	
James W. Hill Co., fire department	60.55	
Nellie K. Bates, contingent expenses	12.00	
	$141.81	
Geo. E. Morrill, collector—		
Notifying mortgagees, taxes, 1910	16.65	
E. C. Smith, mayor—		
Received from Margaret Sheehan for land, Nos. 156, 157, 158, 159, 160, Riverview, deeded to city of Manchester, for non-payment of taxes for years 1908, 1909, 1910, 1911	30.89	

Received from Marie C. Dumas for lots No. 617 to No. 672 Hebert, deeded to city of Manchester, for non-payment of taxes for years 1908, 1909, 1910, 1911	$41.45	
Received from Mary E. Dyer for lot No. 13, South Beech street, deeded to city of Manchester, for non-payment of taxes, for the year 1902, to date.....	89.89	
H. S. Foster, superintendent of buildings—		
Junk sold from public buildings.....	205.57	
Discount on bill of Chamberlin Metal Weather Strip Co.....	5.00	
T. W. Lane, chief of fire department—		
Old hose, etc., sold from engine houses..	25.77	
W. M. Parker, treasurer Suncook Valley Railroad—		
Dividend on 500 shares of Suncook Valley Railroad stock (1½% July 1, 1912, dividend)	750.00	
		$1,307.03
George E. Morrill, collector of taxes:		
Taxes, 1912.....	$908,273.13	
Taxes, 1911	63,018.76	
Redemption of land sold for taxes, non-resident	320.90	
Redemption of land sold for taxes, resident	6,226.02	
Interest on taxes, 1911.....	1,785.28	
Costs on taxes, 1911.....	848.40	
Costs on taxes, 1912.....	1,100.00	
Old taxes, 1905.....	1.04	
" " 1906.....	1.91	
" " 1907.....	19.98	
" " 1908.....	256.68	
" " 1909.....	54.33	
" " 1910.....	592.93	
" " 1911.....	754.52	
		$983,253.88
Receipts for the year.....		$2,018,780.34
Cash on hand January 1, 1912.....		214,333.67
Unpaid bills December 31, 1912.....		63,182.86
		$2,296,296.87

		Cr.
Total drafts for the year	$2,038,831.07	
Unpaid bills January 1, 1912	54,502.52	
Cash on hand December 31, 1912	202,963.28	
		$2,296,296.87

Respectfully submitted,
FRED L. ALLEN,
City Treasurer.

To the City Council of the City of Manchester:

Gentlemen:—I have examined the accounts of Fred L. Allen, city treasurer, for the year ending December 31, 1912, and find proper vouchers for all payments and all receipts duly accounted for.

The net cash on hand January 1, 1912, was	$159,831.15
Receipts during the year	2,018,780.34
Total	$2,178,611.49

Amount of drafts during the year	$2,038,831.07
Net amount of cash on hand December 31, 1912	139,780.42
Total	$2,178,611.49

Cash taken December 31, 1912, I find to be as follows:

Deposited in Merchants National bank, Manchester, N. H.	$164,664.47
Deposited in Second National bank, Boston, Mass.	29,440.08
Deposited in office safe	8,858.73
Gross amount of cash on hand December 31, 1912	$202,963.28
Deduct amount of unpaid bills	63,182.86
Net amount of cash on hand December 31, 1912	$139,780.42

JAMES E. DODGE,
City Auditor.

STATEMENT OF THE RECEIPTS AND EXPENDITURES OF THE CITY OF MANCHESTER FOR THE YEAR 1912.

Receipts.

CENTRAL DEPARTMENT.

Received from:		
Direct city taxes	$972,973.28	
Cost and interest on taxes	2,633.68	
		$975,606.96

Licenses to enter sewer	$3,086.75	
keep dog	2,789.87	
sell milk	453.00	
keep billiard and pool tables	2,466.75	
lunch carts, etc	445.50	
shows and exhibitions	687.00	
Fees from city clerk	1,311.45	
Rents from city clerk	340.96	
		$11,581.28

SUNDRIES.

Received from:		
City scales	$300.05	
Tuition, free text-books and fines	2,377.69	
Board of health	702.58	
Miscellaneous sources	398.57	
Fees, city solicitor	374.65	
Dividend, Suncook Railroad	750.00	
		$4,903.54

POLICE DEPARTMENT.

Received from:		
Costs and fines		$2,877.21

PUBLIC PLACES.

Received from:		
Amoskeag cemetery	$14.00	
Merrill cemetery	71.88	
Valley cemetery	1,997.00	
Pine Grove cemetery	11,701.74	
		$13,784.62

WATER-WORKS.

Gross receipts	$146,591.29

CITY FARM.

Received for rent of city farm	$1,020.00

LIQUOR LICENSES.

Received from state liquor commissioners for licenses	$53,842.03

MISCELLANEOUS.

Received from:		
Interest	$3,683.03	
Land redeemed from tax sale	7,646.92	
Board of public works, sale of stone, pipe, etc., and for labor	27,409.47	
Overdrafts	162.11	
		$38,901.53
Total ordinary receipts during the year 1912		$1,249,108.46

DEBT.

Received from:		
Sinking fund commissioners	$100,000.00	
Bonds sold	198,850.00	
Interest and premium on bonds	472.44	
Temporary notes	12,850.00	
		$312,172.44

TEMPORARY LOAN.

Received from loan in anticipation of tax of 1912	$300,000.00

STATE.

Received from:		
Insurance taxes	$4,412.62	
Railroad taxes	56,961.58	
Savings Bank taxes	91,574.68	
Literary fund	4,550.56	
		$157,499.44
Gross receipts		$2,018,780.34
Net cash on hand January 1, 1912		159,831.15
		$2,178,611.49

EXPENDITURES.

CENTRAL DEPARTMENT.

Interest on water bonds	$23,577.50	
city bonds	40,425.00	
cemetery bonds	3,235.00	
temporary loans	6,962.83	
		$74,200.33
City hall	$4,676.18	
Printing and stationery	3,468.56	
Incidental expenses	19,475.30	
Mayor's incidentals	300.00	
City officers' salaries	37,044.42	
Auditor's department	3,073.29	
Sinking fund trustees	15,050.00	
Assessors' department	12,457.21	
Building department	5,830.37	
Land sold for taxes	4,064.58	
		$105,439.91

STREET AND SEWER DEPARTMENT.

Board of public works	$12,595.17
Snow and ice and cleaning streets	19,162.27

Repairs of highways	$28,157.35	
Street sweeping	8,258.03	
Watering streets	14,427.38	
Paving streets	32,689.12	
Macadamizing and new highways	118,049.85	
Grading for concrete	12,043.00	
Scavenger service	33,109.82	
Lighting streets	64,917.57	
Bridges	7,449.48	
City teams	28,481.84	
Repairs of sewers	8,653.25	
New sewers	40,888.38	
Brown-tail and gypsy moth	5,713.23	
Machine sweeping	2,189.26	
City yard	5,637.41	
Cutting and trimming trees	2,411.54	
Elm leaf beetle	3,457.27	
Sanitary drinking fountain, city hall	415.84	
Land taken for highways	3,042.05	
		$451,749.11

ENGINEER'S DEPARTMENT.

Engineer's department	$10,500.00

HEALTH DEPARTMENT.

Health department	$22,966.73

SCHOOL DEPARTMENT.

Fuel	$12,737.31	
Furniture and supplies	2,140.91	
Books and stationery	36.47	
Printing and advertising	708.40	
Contingent expenses	5,485.40	
Care of schoolrooms	13,659.31	
Care of school clocks	254.20	
Evening schools	2,682.65	
Evening school, mechanical drawing	289.19	
Teachers' salaries	129,250.58	
Free text-books	11,163.77	
Manual training	557.53	
Equipment for manual training school	564.81	
Pianos	500.00	
		$180,030.53

CITY LIBRARY.

City library		$10,499.88

FIRE DEPARTMENT.

Fire department	$108,897.61	
Fire-alarm telegraph	5,084.78	
Hydrant service	23,075.00	
		$137,057.39

POLICE DEPARTMENT.

Police station	$2,204.21	
Police court	2,905.58	
Police commission	78,225.32	
		$83,335.11

PUBLIC BUILDINGS.

New fire-alarm and building	$25,014.58	
Repairs of public buildings	22,937.60	
Subway comfort	9,675.89	
New schoolhouses	38,168.44	
Board of examiners of plumbers	48.86	
Enginehouse, West Manchester	870.00	
Land for Parker school lot	2,000.00	
		$98,715.37

WATER-WORKS.

Water-works	$148,957.32	
Water-works sinking fund	28,075.00	
		$177,032.32

PUBLIC PLACES.

Commons	$4,167.93	
Stark park	777.72	
Derryfield park	829.89	
Lafayette park	5.98	
Rock Rimmon park	1,702.16	
Parker common	717.13	
Miscellaneous playgrounds	843.92	
Merrill cemetery	72.37	
Amoskeag cemetery	360.23	
Valley cemetery	4,997.75	
Pine Grove cemetery	19,461.84	
		$33,936.92

CHARITABLE, PATRIOTIC, AND PHILANTHROPIC.

Paupers off farm	$19,407.77	
Indigent soldiers	380.05	
Women's Aid Home	300.00	
Elliot hospital	300.00	
Notre Dame de Lourdes hospital	300.00	
Sacred Heart hospital	300.00	
W. C. T. U. Mercy Home	300.00	
Infant asylum	300.00	
St. Joseph's orphanage	300.00	
Hospice St. Vincent de Paul	300.00	
Orphanut St. Pierre	300.00	
Decoration of soldiers' graves	499.29	
Militia	1,050.00	
Band concerts	350.00	
Animal Rescue League	300.00	
Boys' club	300.00	
St. John's Home	300.00	
Young Men's Christian Association	300.00	
St. Patrick's Girls' Home	300.00	
West Side reading room	100.00	
District Nursing Association	300.00	
Settlement Association	300.00	
Celebration of Independence day	1,000.00	
		$27,587.11
Total of ordinary municipal expenditures		$1,413,050.71

TEMPORARY LOAN.

Temporary loan	$300,000.00	
Temporary note	16,693.00	
		$316,693.00

BONDED BEBT.

School bonds	$10,000.00	
City bonds	10,000.00	
Water bonds	100,000.00	
		$120,000.00

STATE AND COUNTY TAXES.

State tax	$129,920.00	
County tax	59,167.36	
		$189,087.36
Grand total of expenditures during the year		$2,038,931.07

Cash on hand December 31, 1912	$202,963.28	
Less unpaid bills	63,182.86	
		$139,780.42
		$2,178,611.49

Interest.

Receipts.

Appropriation	$48,600.00	
Transferred from water-works account	23,577.50	
Transferred from unappropriated money	2,022.83	
		$74,200.33

Expenditures.

Coupons on bridge bonds	$2,400.00	
cemetery bonds	3,235.00	
city funding bonds	1,732.50	
city loan bonds	1,767.50	
improvement bonds	19,440.00	
municipal bonds	2,800.00	
refunding bonds	5,500.00	
school bonds	6,785.00	
water bonds	23,577.50	
		$67,237.50
Manchester Savings Bank, discount on notes	$3,892.64	
Merrimack River Savings Bank, discount on notes	1,903.06	
Old Colony Trust Co., discount on notes	875.00	
Trustees of Sinking Fund, interest on $16,693.00	292.13	
		$6,962.83
Total expenditures		$74,200.33

Payment of Funded Debt.

Receipts.

Appropriation	$20,000.00	
Received from water-works sinking fund	100,000.00	
		$120,000.00

EXPENDITURES.

Bridge bonds	$5,000.00	
School bonds	15,000.00	
Water bonds	100,000.00	
		$120,000.00

Sinking Fund.

RECEIPTS.

Appropriation	$15,050.00

EXPENDITURES.

Trustees of Sinking Fund	$15,050.00

Unappropriated Money.

RECEIPTS.

Transferred from the following accounts:

City hall	$323.82
City officers' salaries	455.58
Building department	669.63
Board of public works	504.83
Repairs of highways	1,842.65
Street sweeping	3,241.97
Bridges	2,505.52
New sewers	8,511.62
Washing and flushing streets	2,000.00
Commons	917.07
Stark park	222.28
Lafayette park	994.02
Rock Rimmon park	297.84
Derryfield park	180.01
Miscellaneous playgrounds	756.08
Parker common	82.87
Prout park	300.00
Lighting streets	382.43
Health department	642.27
City library	.12
Fire department	1,102.39
Fire-alarm telegraph	415.22
Police commission	1,154.68
Police station	795.79

Police court	$294.42	
Repairs of public buildings	168.43	
Care of city clocks	200.00	
Subway comfort	39.45	
Public wharf, Merrimack river	150.00	
Pine Grove cemetery	41.16	
Valley cemetery	2.25	
Amoskeag cemetery	139.77	
Merrill cemetery	27.63	
Books and stationery	13.53	
Fuel	262.69	
Furniture and supplies	359.09	
Care of schoolrooms	340.69	
Manual training	192.47	
Evening school, mechanical drawing	10.81	
Evening schools	317.35	
Teachers' salaries	7,749.42	
Water for Mosquito pond	750.00	
Care of school clocks	95.80	
Paupers off farm	792.23	
Indigent soldiers	19.95	
Decoration of soldiers' graves	.71	
Land sold for taxes	935.42	
Board of examiners of plumbers	1.14	
Unappropriated cash in treasury	8,914.58	
		$50,117.68

EXPENDITURES.

Transferred to the following accounts:		
Interest	$2,022.83	
Printing and stationery	468.56	
Incidental expenses	12,475.30	
Assessors' department	7.21	
Snow and ice and cleaning streets	2,624.98	
Watering streets	2,417.38	
Paving streets	2,039.62	
Macadamizing and new highways	7,117.41	
Grading for concrete	4,935.32	
Scavenger service	3,018.17	
City yard	137.41	
City teams	1,591.67	
Repairs of sewers	1,827.41	
Machine sweeping	1,189.26	
Sanitary drinking fountain, city hall	90.84	
Cutting and trimming trees	61.54	
Elm leaf beetle	457.27	

Brown-tail and gypsy moth	$1,696.76	
Land taken for highways	3,042.05	
Printing and advertising	208.40	
Contingent expenses	485.40	
Free text-books	1,163.77	
Manual training equipment	64.81	
New schoolhouses	924.31	
Band concerts	50.00	
		$50,117.68

Temporary Loan.

RECEIPTS.

Appropriation	$16,693.00	
Manchester Savings Bank	175,000.00	
Merrimack River Savings Bank	75,000.00	
Old Colony Trust Co	50,000.00	
		$316,693.00

EXPENDITURES.

Manchester Savings Bank	$175,000.00	
Merrimack River Savings Bank	75,000.00	
Old Colony Trust Co	50,000.00	
Trustees of Sinking Fund	16,693.00	
		$316,693.00

City Hall.

RECEIPTS.

Appropriation	$5,000.00

EXPENDITURES.

FUEL, LIGHTS, TELEPHONE, WATER.

L. B. Bodwell, coal	$458.32	
C. B. Clarkson, weighing coal	2.50	
Manchester Traction, Light & Power Co., electric lights	756.13	
Maxwell Ice Co., wood	14.00	
New England Telephone & Telegraph Co., use of telephone	37.20	
People's Gas Light Co., gas	138.38	
D. M. Poore Coal Co., wood	16.00	
Water Commissioners, use of water	337.70	
John R. Willis & Co., coal	36.57	
		$1,796.80

CLEANING OFFICES, ETC.

Charles J. Beliveau, janitor	$900.00	
Dustwax Manufacturing Co., dustwax	6.25	
L. M. Folsom, gauze and cotton	9.32	
Manchester Hardware Co., shovel, scraper, paper, etc.	18.87	
Manchester Tea Co., soap	1.50	
Sarah Minton, cleaning	372.00	
Office Toilet Supply Co., toilet service	39.75	
John Roberts, assistant janitor	600.00	
Timothy Sullivan, janitor public comfort	315.00	
John B. Varick Co., matches, paper, shovels, oil, etc.	69.81	
West Disinfecting Co., disinfectant	46.25	
		$2,378.75

FURNITURE AND SUPPLIES.

The Barton Company, chairs, awnings, etc.	$135.84	
Consolidated Electric Lamp Co., lamps	50.40	
Derryfield Lumber Co., 1 oak table	30.00	
Chas. A. Hoitt Co., costumers, shades, matting	10.22	
Manchester Traction, Light & Power Co., lamps	17.40	
People's Gas Light Co., gas lamps	7.50	
A. B. Skinner, taking down awnings	22.75	
		$274.11

INSURANCE PREMIUMS.

W. G. Berry	$6.75	
George Blanchet	3.38	
Clough & Parker	3.38	
Dockham & Thorpe	11.25	
Putnam & Laflamme	20.00	
John A. Sheehan	22.50	
G. A. Vermille Insurance Agency	22.50	
		$89.76

INCIDENTAL REPAIRS.

The Aller Co., caning and repairing chairs	$10.10
J. J. Abbott, paint and labor	9.73
E. M. Bryant & Co., supplies and labor	6.75
Finney Upholstering & Window Cleaning Co., caning chairs	6.50

A. L. Frank & Co., electric supplies and labor	$26.26	
Peter Harris & Son, keys and repairs	2.15	
C. A. Hoitt Co., repairing desk	1.50	
Pike & Heald Co., repairing rake and brush	.43	
C. W. Powell, lumber and labor	5.05	
Frank A. Sargent, bracing 247 chairs	44.46	
		$112.93

SUNDRIES.

American Express Co., express on lamps	$1.00	
J. G. Jones, freight and cartage	.55	
Standard Ice Co., ice	22.28	
		$23.83
Total expenditures		$4,676.18
Transferred to unappropriated money		323.82
		$5,000.00

Printing and Stationery.

Appropriation	$3,000.00	
Transferred from unappropriated money	468.56	
		$3,468.56

EXPENDITURES.

TAX COLLECTOR.

John B. Clarke Co., printing	$136.25	
W. P. Goodman, rubber bands	.25	
J. Arthur Williams, printing envelopes	1.75	
		$138.25

CITY CLERK.

John B. Clarke Co., printing	$61.50	
E. H. Chadbourne, P. M., stamped envelopes	5.50	
W. P. Goodman, stationery	6.10	
Library Bureau, cards printed	10.00	
		$83.10

CITY TREASURER.

John B. Clarke Co., printing	$3.00	
E. H. Chadbourne, P. M., stamps, cards, envelopes	123.24	
General Manifold & Printing Co., pay envelopes	45.00	

W. P. Goodman, stationery	$16.05	
E. A. Stratton Co., printing	2.25	
Stewart, Warren & Co., lithographed checks	20.00	
		$209.54

MAYOR.

E. H. Chadbourne, P. M., stamped envelopes	$10.62	
John B. Clarke Co., printing blanks	21.25	
George D. Fitts, stationery	1.00	
		$32.87

AUDITOR.

John B. Clarke Co., printing 400 reports	$1,762.07	
George D. Fitts, binding 4 volumes	6.75	
Temple & Farrington Co., binding reports	135.00	
J. Arthur Williams, printing billheads	33.75	
		$1,937.57

INSPECTORS OF CHECKLISTS.

John B. Clarke Co., printing	$896.15	
Temple & Farrington Co., books and papers	17.83	
		$913.98

CITY COUNCILS AND COMMITTEES.

John B. Clarke Co., printing	$110.75	
Ruemely Press, printing	32.25	
E. A. Stratton Co., cards, paper, envelopes	10.25	
		$153.25
Total expenditures		$3,468.56

Incidental Expenses.

Appropriation	$7,000.00	
Transferred from unappropriated money	12,475.30	
		$19,475.30

EXPENDITURES.

BIRTHS AND DEATHS.

M. P. Badger, M. D.	$8.25
George L. Bastian, M. D.	8.00
W. L. Biron, M. D.	50.50
Anna Borkowska	10.25
H. W. Boutwell, M. D.	2.25

A. A. E. Brien, M. D.	$0.50
Lillian G. Bullock, M. D.	3.75
I. L. Carpenter, M. D.	5.50
Damase Caron	7.00
Charles Chirurg, M. D.	4.25
Herman Christophe, M. D.	9.50
C. O. Coburn, M. D.	9.50
James M. Collity, M. D.	6.00
P. W. F. Corning, M. D.	2.25
W. T. Crosby, M. D.	4.75
E. H. Currier, M D.	3.50
Charles L. Curtiss, M. D.	5.00
A. P. Cambardies, M. D.	.25
George R. Cate, M. D.	.50
Bertha L. Cameron	1.00
Mary S. Danforth, M. D.	5.50
George M. Davis, M. D.	23.00
R. H. Dillon, M. D.	8.25
E. B. Dunbar, M. D.	7.25
John D. Ferguson, M. D.	.25
George V. Fiske, M. D.	3.75
C. F. Flanders, M. D.	19.00
L. A. Folsom, M. D.	11.25
George S. Foster, M. D.	7.00
E. N. Fugere, M. D.	35.25
John H. Gleason, M. D.	4.25
Moise Guerin, M. D.	30.75
N. E. Guillet, M. D.	2.25
Mary Hickman	.50
G. B. Hoitt, M. D.	5.50
John F. Holmes, M. D.	9.00
Bertha Huot	.25
Ezra A. Jones, M. D.	10.25
M. E. Kean, M. D.	8.50
J. A. Lacasse, M. D.	83.00
Gustave Lafontaine, M. D.	20.25
Susan Laflamme	13.50
J. E. A. Lanouette, M. D.	53.00
J. E. Larochelle, M. D.	43.50
Z. A. Lavoie, M. D.	48.25
J. E. Lemaitre, M. D.	2.25
W. H. Lyons, M. D.	17.75
Ulric Lafontaine, M D.	.75
J. W. D. MacDonald, M. D.	.75
A. S. Mangurian, M. D.	3.00
N. D. Michou, M. D.	3.25
G. B. Morey, M. D.	.75

John T. Murray, M. D.	$6.00	
H. W. Newell, M. D.	.25	
John C. O'Connor, M. D.	31.50	
D. W. Parker, M. D.	4.50	
W. M. Parsons, M. D.	.50	
W. H. Pattee, M. D.	2.25	
N. P. Papadopulus, M. D.	.25	
J. R. Pepin, M. D.	10.75	
Frederick Perkins, M. D.	1.25	
Frank J. Pherson, M. D.	4.25	
Anna Pollmer	.75	
J. F. Robinson, M. D.	3.50	
F. N. Rogers, M. D.	6.25	
J. E. E. Roy, M. D.	16.00	
William Richardson, M. D.	.75	
H. L. Stickney, M. D.	1.50	
A. G. Straw, M. D.	1.50	
Zatae L. Straw, M. D.	14.75	
C. A. Sturtevant, M. D.	3.25	
C. B. Sturtevant, M. D.	1.75	
Mrs. A. Schelzel	.50	
Charlotte S. Smith, M. D.	.50	
Emil Sylvain, M. D.	16.50	
F. P. Scribner, M. D.	.75	
J. A. Taylor, M. D.	21.75	
W. A. Thompson, M. D.	6.75	
A. J. Todd, M. D.	.50	
M. H. Towle, M. D.	5.50	
E. C. Tremblay, M. D.	8.25	
R. W. Tuttle, M. D.	.25	
G. M. Watson, M. D.	22.75	
Maurice Watson, M. D.	1.25	
N. B. Webber, M. D.	2.75	
R. W. Weeks, M. D.	7.75	
A. F. Wheat, M. D.	4.50	
George C. Wilkins, M. D.	6.25	
George Wakefield, M. D.	.25	
		$842.50

MARRIAGES.

Rev. G. A. Anderson	$0.75
Rev. H. E. Allen	.50
Rev. Claudius Byrne	.50
Rev. C. R. Bailey	.75
Rev. J. J. Bradley	1.25
M. S. Bennett	.75
John C. Bickford	.25

Rev. Thomas Chalmers	$3.25
Rev. J. A. Chevalier	15.00
Rev. N. L. Colby	18.25
Rev. C. L. Corliss	1.00
Rev. I. H. C. Davignon	20.75
Rev. C. W. Dockrill	.25
Rev. J. H. Dickson	.75
Joseph M. Druker	.75
Rev. L. J. Doucet	4.75
G. B. N. Dow	.25
Rev. R. J. Elliott	7.25
Rev. J. E. A. Evert	1.75
Ferdinand Farley	.50
I. E. & W. H. Forbes	1.00
J. L. Felt	.25
Rev. M. R. Foshay	.25
Rev. David Fraser	3.00
Rev. D. J. Gorman	.75
B. Gardner	.25
Rev. G. E. Hathaway	.25
David P. Hatch	.25
George V. Hamlin	.25
Rev. G. R. Hazard	4.00
Rev. Burton L. Hess	.25
T. J. Howard	.25
T. Jock	.25
Rev. John Kamm	1.00
Carroll S. King	.50
Rev. Louis M. Laplante	16.50
Rev. F. X. Leclair	3.00
Rev. I. B. Leclaire	.25
Rev. B. W. Lockhart	1.25
Rev. F. X. Lyons	.75
Rev. J. J. Lyons	4.00
B. J. Mack	.50
J. J. McAllister, Jr	.75
Rev. Thomas M. O'Leary	9.25
Clinton S. Osgood	1.25
Rev. E. J. Palisoul	.50
Rev. F. G. Pebler	.75
J. B. Pattee	.25
Sven J. Peterson	.50
A. W. Phinney	2.50
J. N. Plante	.25
Rev. J. B. Puchala	4.75
Rev. E. E. Reynolds	2.50
Herman Rodelsperger	1.25

Rev. Samuel Russell	$6.50	
Rev. J. W. Smith	.50	
Rev. P. Schachter	.25	
W. J. Starr	.25	
A. Strebtzky	.50	
W. Szorc	9.25	
Leo Tyllo	1.50	
Rev. M. Vellacoulis	5.25	
Rev. A. F. Walch	2.25	
Leonard Walter	3.00	
Rev. J. E. Wildey	.25	
Wm. Woods	.50	
John Zacharko	5.00	
		$177.50

DAMAGES AND JUDGMENTS.

Mattie A. Badger	$50.00	
Melvin P. Badger, M. D	50.00	
Grace M. Carpenter	75.00	
L. M. & M. J. Connor	125.00	
J. Doucet & Co	25.00	
Harold Glynn	4.00	
John Hannamann	5.76	
Joseph Huneau	100.00	
M. E. Kean, M. D	350.00	
Patrick J. Keane	75.00	
Joseph Landry	9,205.64	
Francena Laird	225.00	
Alfred Livernois	5.25	
O'Connor & O'Connor (F. P. Danforth)	50.00	
Vitaline Ricard	600.00	
Harry C. Robie	100.00	
Sacred Heart Hospital	94.40	
Wilfred St. Onge	60.00	
		$11,200.05

LEGAL EXPENSES.

W. P. Adams, serving notice	$0.50
Drew, Shurtleff & Morris, services, Landry v. City	1,000.00
Ferdinand Farley, stenographic reports, hearings given G. H. Hammond	28.00
Francis M. Fogarty, entry fee and preparation of record, Landry v. city	90.00
Wm. M. Haggett, one half expense attendance U. S. court, Landry v. City	12.50

Wm. M. Haggett, typewriting evidence, Landry v. City	$53.75	
Burns P. Hodgman, printing and supervising record, etc., Landry v. city	313.07	
Thomas D. Luce, services	7.40	
O. F. Moreau, expenses paid, investigation G. H. Hammond	52.00	
George A. Wagner, time, advice, and services, January, 1909, to February 6, 1912	553.11	
George A. Wagner, paid for writing brief	1.00	
Calvin R. Wood, recording	34.45	
L. F. Kittredge, time and expense, Landry v. City	17.88	
		$2,163.66

CITY COUNCILS AND COMMITTEES.

Leo A. Cavanaugh, use of hack	$5.00	
George D. Fitts, books and paper, charter commission	5.42	
W. J. Freeman, use of hacks and automobiles	74.00	
J. D. French, use of automobile	9.00	
W. Y. Hadlock & Co., use of automobiles	60.00	
L'Avenir National, publishing ordinance	8.80	
Rapid Mailing Bureau, Inc., 35 resolutions	7.00	
J. W. Richards, use of hack	5.00	
Roy & Gadbois, use of automobiles	135.00	
Smith-Ramsey Automobile Co., use of automobiles	11.25	
Louis Vogel, use of team	1.50	
		$321.97

CITY SCALES.

L. B. Bodwell, coal	$10.00	
L. E. Charles, 1 chair	2.00	
W. E. Dunbar & Sons, wood	4.00	
Maxwell Ice Co., wood	1.88	
Temple & Farrington Co., books and slips	9.85	
John B. Varick Co., brush	1.50	
John R. Willis & Co., coal	6.32	
		$35.55

MAYOR.

George D. Fitts, stationery	$1.50
W. P. Goodman, stationery	4.45
W. P. Goodman, directories and diaries	34.50

New England Telephone & Telegraph Co., use of telephone, mayor's secretary.....	$32.40	
Temple & Farrington Co., 12 books.....	5.25	
Western Union Telegraph Co., telegrams....	5.00	
		$83.10

TAX COLLECTOR.

John B. Clarke Co., advertising.....	$28.12	
E. H. Chadbourne, P. M., stamps.....	320.00	
D. A. Diacoumopoulis, advertising.....	20.00	
George D. Fitts, books and stationery.....	1.00	
W. P. Goodman, books and stationery.....	3.98	
C. A. Guizot, advertising.....	5.00	
Independent Statesman, advertising non-resident tax list.....	9.00	
A. E. Martell Co., letter books.....	10.00	
Star Stamp Co., 1 stamp.....	.25	
Temple & Farrington Co., books, paper and envelopes	90.58	
John B. Varick Co., 1 special bag.....	7.00	
		$494.93

CITY CLERK.

American Express Co., express.....	$3.00	
Boston Badge Co., junk dealer badges.....	22.50	
Calumet Typewriter Supply House, carbon paper and ribbons.....	13.00	
John B. Clarke Co., printing.....	18.50	
John B. Clarke Co., advertising ordinance...	13.50	
E. H. Chadbourne, P. M., envelopes.....	32.24	
W. P. Goodman, books and stationery.....	27.69	
Clarence S. Forsaith, looking up dog owners	20.00	
Ideal Stamp Co., stamps and badges.....	192.25	
Kee Lox Manufacturing Co., carbon paper..	7.00	
Library Bureau, card trays.....	26.40	
Manchester & Concord Express Co., express charges	.30	
Macmillan Book Co., books, etc.....	43.90	
Manchester Union Co., advertising ordinance	15.00	
New England Telephone & Telegraph Co., tolls	3.66	
Remington Typewriter Co., 1 Macmillan book	15.80	
Remington Typewriter Co., repairing machine	8.00	
Springfield Rubber Co., rubber bands.....	3.70	
Temple & Farrington Co., blank book, index, and cover.....	13.00	
Western Union Telegraph Co., clock rental..	12.00	
		$491.44

CITY TREASURER.

F. L. Allen, paid for stamps, express, and supplies	$17.17	
Amoskeag National Bank, rent of safety deposit box	15.00	
Barton Company, felt	1.50	
Frank P. Bridges & Co., pens	1.50	
John B. Clarke Co., printing bond circulars	4.00	
George D. Fitts, stationery	12.08	
W. P. Goodman, stationery	1.00	
J. G. Jones, freight	.80	
Manchester National Bank, rent of safe	25.00	
New England Telephone & Telegraph Co., tolls	15.38	
Old Colony Trust Co., preparation and certification of bonds including legal opinion	380.00	
Francis Pratt, Jr., pens	2.75	
E. A. Stratton Co., paper and cards	5.25	
Temple & Farrington Co., books and covers	58.90	
		$540.33

COURT HOUSE.

L. B. Bodwell, coal	$295.09	
Thomas Griffin, janitor services	4.00	
W. L. Miner, services as janitor	600.00	
Maxwell Ice Co., wood	7.00	
People's Gas Light Co., gas	121.44	
John B. Varick Co., mop wringer	1.50	
John R. Willis & Co., coal	202.33	
		$1,231.36

INSURANCE PREMIUMS.

W. G. Berry	$7.50	
George Blanchet	7.50	
Clough & Parker	5.00	
John Dowst	5.00	
Everett & Bunton	7.50	
Robert J. Hayes	75.00	
John A. Sheehan	60.00	
		$167.50

ELECTION EXPENSES.

Louis Alter, sawdust and cartage	$4.10
A. G. Bean, cleaning Ward 6 wardroom	30.00
Charles Boisclair, carrying ballots	2.00
Richard J. Brown, labor at Ward 5 wardroom	31.40

E. M. Bryant & Co., lamps and labor.....	$9.90	
Bunton & Bernard, bill board.....	2.50	
Leo A. Cavanaugh, use of hacks.....	3.50	
E. H. Chadbourne, P. M., stamped envelopes	66.00	
C. E. Colby, repairing desk, Ward 2.....	2.50	
W. G. Colcord, labor on booths, Ward 3.....	13.30	
Fred Cormier, sawdust.....	4.60	
L. G. Dancose, delivering pamphlets from house to house and addressing envelopes..	27.50	
Division No. 7, A. O. H., electricity, Ward 4 caucus	1.80	
C. DeMoulpied & Co., use of tables and chairs	5.50	
Dana A. Emery, labor on booths, Ward 1...	6.00	
Farrell Brothers, lamps and labor, Ward 5..	4.59	
A. L. Franks & Co., labor and stock.....	7.00	
J. D. French, use of hacks, Ward 6.....	5.00	
W. J. Freeman, carrying ballot boxes.....	5.50	
F. X. Gagne, labor on booths, Ward 9.....	19.81	
W. P. Goodman, stationery.....	49.98	
C. A. Hoitt Co., use of tables and chairs, Ward 10.....	.75	
F. W. Hoffman, labor, Ward 8.....	14.15	
John Kubit, use of Polish hall.....	48.00	
Charles H. Martel, postage to January, 1913	1.80	
Horace Martel, labor on booths, Ward 9.....	16.35	
Novelty Company, stamps and pads.....	.75	
A. O. Oviatt, labor, stationery, postage, Ward 2.....	10.00	
C. W. Powell, labor and coal, Ward 3.....	8.90	
F. L. Richardson, carrying ballots, Ward 3..	3.00	
Roy & Gadbois, automobiles, inspectors of checklists	20.00	
James A. Scully, use of tables.....	6.50	
Temple & Farrington Co., stationery.....	22.71	
Selectmen, Ward L, labor on booths.....	6.00	
S. W. Shephard, fixing tables, sawdust.....	1.80	
St. Mary's Realty Co., use of hall.....	100.00	
Ubald Smith, labor, Ward 9.....	12.00	
		$575.19

SUNDRIES.

American Express Co., express on reports..	$8.68	
D. G. Andrews, labor, Ward 2 wardroom....	7.00	
Battery A., N. H. N. G., firing Fourth of July salute	32.00	
L. B. Bodwell, wood, wardroom, Ward 2....	1.00	

Boston & Maine Railroad, 100 trip tickets to Boston, less amount paid by city officials..	$33.20
J. Newell Brown, weighing coal.....	32.50
John Carrier, paid city for purchase of land at non-resident tax sale (land proved to be owned by another party who had paid taxes on same).....	15.24
C. B. Clarkson, weighing coal.....	15.00
The Emerald, publishing law relating to newsboys	7.00
Albena M. Fraser, for N. E. Decorating Co., decorating city hall, March 19.....	35.00
W. & L. E. Gurley, measures, etc., for city sealer	12.13
John B. Hall Co., acid for city sealer.....	1.00
Lawrence A. Hurley, full payment for claim for services.....	92.00
J. G. Jones, freight.....	1.07
Henry I. Lemay, repairing clocks.....	128.75
Mrs. Joseph Lemay, hens killed by dogs.....	4.00
Maxwell Ice Co., wood, Ward 2.....	3.50
O. F. Moreau, expenses to Nashua and Boston, and telephone tolls.....	28.53
Manchester Traction, Light & Power Co., electric lights, Somerville engine house...	43.58
Manchester Traction, Light & Power Co., electric lights, Ward 2.....	24.23
Manchester Traction, Light & Power Co., electric lights, Ward 4.....	12.65
Manchester Traction, Light & Power Co., electric lights, Ward 8.....	22.93
N. H. Forestry Commission, fines for violation of Sect. 12, Chapter 128, Laws of 1909 as amended in 1911.....	90.00
People's Gas Light Co., gas, Battery building	6.49
Arthur W. Phinney, return of 399 names of children not previously reported.....	99.75
Repairs of public buildings, repairing window broken by deer.....	6.03
Springfield Rubber Co., rubber bands.....	5.55
Edward C. Smith, expense to Fitchburg, Brookline and Boston, committee on manual training.....	110.00
Town of Goffstown, taxes.....	5.43
Union Stamp Works, stamp for sealer.....	.50
G. M. Watson, medical attendance, Mary McGillan	25.00

W. E. Wallace, clerk of charter commission..	$200.00	
Water Commissioners, use of water, city farm	18.40	
Water Commissioners, Battery building.....	6.00	
Water Commissioners, Ward 5 wardroom...	9.76	
John R. Willis & Co., coal, Ward 5 wardroom	6.32	
		$1,150.22
Total expenditures.....		$19,475.30

City Officers' Salaries.

Appropriation	$37,500.00

EXPENDITURES.

CENTRAL DEPARTMENT.

Edward C. Smith, mayor.....	$3,000.00	
Fred L. Allen, city treasurer.....	2,000.00	
Arthur W. Phinney, city clerk.....	2,000.00	
George E. Morrill, tax collector.....	2,000.00	
Edwin C. Paul, deputy collector.....	1,000.00	
A. S. Rich, deputy collector.....	1,000.00	
Denis Vigneault, deputy collector.....	1,000.00	
James R. Ferson, city messenger.....	1,174.99	
Oscar F. Moreau, city solicitor.....	1,200.00	
John C. O'Connor, M. D., city physician.....	1,200.00	
M. H. Towle, M. D., acting city physician....	50.00	
Gilbert Lyons, city weigher.....	600.00	
Michael Griffin, acting city weigher.....	19.20	
John J. McAllister, Jr., mayor's secretary...	1,000.00	
Mabel L. How, treasurer's clerk.....	855.00	
Eva G. Jones, clerk for city clerk.....	850.00	
Malvina Levesque, clerk for city clerk.....	662.00	
Myrtie G. Lang, clerical services.....	258.00	
Patrick F. Vaughan, clerk common council..	100.00	
W. M. Moher, bathhouse caretaker.....	135.00	
Minnie H. Allen, clerical services.....	19.50	
Mary J. Burke, clerical services.....	55.75	
May Davis, clerical services.....	8.75	
Cora B. Kennedy, clerical services.....	51.00	
Rose A. Kennedy, clerical services.....	91.50	
Ina E. Morrill, clerical services.....	96.75	
Blanche E. Wheeler, clerical services.....	7.50	
		$20,434.94

SCHOOL OFFICERS AND BOARD OF SCHOOL COMMITTEE.

Charles W. Bickford, school superintendent	$2,649.98	
Curtis W. Davis, truant officer	1,200.00	
Harry J. Woods, assistant truant officer	900.00	
Ernest A. Bournival, president of common council, *ex officio*	25.00	
Ernest W. Weisner, Ward 1	25.00	
Allan M. Wilson, Ward 2	25.00	
Frank L. Downs, Ward 3	25.00	
Wm. A. Phinney, Ward 4	25.00	
John F. Lee, Ward 5	25.00	
Harry L. Davis, Ward 6	25.00	
Edward B. Woodbury, Ward 7	25.00	
Frank A. Cadwell, Ward 8	25.00	
Nazaire E. Birón, Ward 9	25.00	
Francis X. Lyons, Ward 10	25.00	
Charles H. Martel, clerk	150.00	
		$5,174.98

BOARD OF ALDERMEN.

Charles W. Richards, Ward 1	$200.00	
Albert L. Clough, Ward 2	200.00	
Victor W. Roy, Ward 3	200.00	
William H. Morgan, Ward 4	200.00	
Richard J. Barry, Ward 5	200.00	
Maurice Watson, Ward 6	200.00	
Herbert A. Salls, Ward 7	200.00	
Arthur W. Dinsmore, Ward 8	183.00	
Stephen T. Martel, Ward 9	200.00	
Pierre J. Charron, Ward 10	200.00	
		$1,983.00

ELECTION OF OFFICERS.

Inspectors of checklists:			
Pay-roll, March	$2,258.00		
September	2,087.50		
November	459.00		
		$4,804.50	
Lyman H. Burbank		165.00	
Majorique Florand		150.00	
Karl A. Klaubert		186.00	
Raymond E. Manseau		12.00	
Horace Martel		330.00	
D. A. McDonnell		225.00	
Daniel J. McCarthy		150.00	
Narcisse Richer		104.00	
Patrick F. Vaughan		600.00	
			$6,726.50

Ballot clerks, per pay-roll	$785.00
Selectmen, per pay-roll	1,190.00
Moderators, per pay-roll	250.00
Ward clerks, per pay-roll	500.00
Total expenditures	$37,044.42
Transferred to unappropriated money	455.58
	$37,500.00

Assessors' Department.

Appropriation	$11,350.00	
Appropriation, by resolution December 17	1,100.00	
Transferred from unappropriated money	7.21	
		$12,457.21

Expenditures

SALARIES OF BOARD.

Joseph O. Tremblay, chairman	$2,000.00	
William P. Farmer	2,000.00	
Joseph H. Geisel	2,000.00	
		$6,000.00
Arthur W. Rowell, clerk of board		1,405.01
Harry J. Briggs, engineer		1,103.00

CLERICAL SERVICES.

Ernest Anctil	$44.50
Lucy A. Anctil	10.50
Furchtegott Artz	42.00
J. W. Z. Bernard	54.00
John J. Bresnahan	37.50
Edith Berwin	135.00
Charles W. Brown	205.50
Inez Burnett	10.50
Mary J. Burke	135.00
Jules Chapdelaine	7.88
Frank P. Collins	115.50
James Costakis	22.50
Mrs. Agnes Connors	85.00
Frank Curtis	33.00
Edmund F. Donnelly	193.89
John Dymtryk	32.50
Bessie Geisel	37.50
James Kehayas	12.50

Rose A. Kennedy	$272.75	
Arthur J. Marcouillier	33.75	
Thomas McDerby	30.00	
John McTiernan	37.50	
John Montplaisir	101.75	
John Montplaisir, Jr	115.50	
William J. Murphy	39.00	
Joseph E. Parent	42.50	
Elizabeth Quimby	7.00	
Abraham Rich	25.00	
Andrew Schricker	32.50	
L. M. Streeter	51.00	
Gertrude Sullivan	198.25	
George Taylor	54.00	
C. C. Tinkham	101.75	
Lucien Tremblay	41.13	
Charles D. Trudell	41.25	
George B. True	36.00	
Patrick F. Vaughan	28.75	
		$2,504.15

USE OF TEAMS.

Brodie Electric & Automobile Co	$7.00	
Leo A. Cavanaugh	33.00	
W. J. Freeman	10.75	
John D. French	4.50	
A. L. Gadbois	12.00	
L. S. Knowlton	69.50	
J. W. Richards	56.00	
Roy & Gadbois	65.00	
L. M. Streeter	25.50	
Louis Vogel	33.50	
		$316.75

SUPPLIES, ETC.

The Aller Co., caning chairs	$2.50	
Burroughs Adding Machine Co., oiling and new ribbons	3.00	
E. H. Chadbourne, P. M., stamps, and stamped envelopes	173.12	
John B. Clarke Co., printing and advertising	169.51	
Frank P. Colby, posting notices	10.00	
H. E. Dunnington, 1 fountain pen	5.00	
Farrell Brothers, stock and labor	1.60	
George D. Fitts, cabinet, cards and folders	43.56	
J. H. Geisel, expenses, entertaining selectmen and assessors at convention	22.75	

W. P. Goodman, stationery	$46.88	
Peter Harris & Son, labor on fire-proof cases	4.50	
Hesser Business College, rent of typewriter	5.85	
Charles A. Hoitt Co., 1 table	18.50	
Ideal Stamp Co., stamps, ink, etc	12.20	
L'Avenir National, advertising notices	41.25	
Manchester Union Co., advertising notice	62.48	
Carl S. Magoon, ribbon coupons	6.00	
J. J. Moreau & Son, cuspidors, pencils	9.00	
New England Telephone & Telegraph Co., tolls	8.88	
Leo Norbert Sign Co., 1 glass sign, frame and hangers	2.70	
Office Toilet Supply Co., toilet service	13.25	
Charles W. Powell, 1 oak table	18.60	
Charles W. Powell, material and labor	16.73	
Ruemely Press, printing	27.00	
Stndard Ice Co., ice	5.05	
Temple & Farrington Co., books and stationery	143.17	
J. O. Tremblay, cash paid:		
Expenses, sundry cities	125.25	
Postage, carfares, etc	92.97	
John B. Varick Co., pencils, ink, lamp	21.00	
J. Arthur Williams, envelopes	16.00	
		$1,128.30
Total expenditures		$12,457.21

Building Department.

Appropriation	$6,500.00

EXPENDITURES.

SERVICES.

George H. Hammond, superintendent of public buildings	$916.64	
George H. Hammond, allowance for team hire	91.68	
Harry S. Foster, superintendent of public buildings	1,083.29	
Harry S. Foster, allowance for team hire	108.36	
Harry S. Foster, inspector of buildings	576.00	
J. B. Lariviere, inspector of buildings	696.00	
		$3,471.97

CLERICAL SERVICES.

Leon B. Stevens	$315.00	
Park J. Stewart	992.00	
		$1,307.00

SUPPLIES, ETC.

American Express Co., charges	$0.50	
J. Edward Baker, drawing plans, public comfort	45.00	
Burroughs Adding Machine Co., 1 adding machine	300.00	
C. G. Braxmar Co., badges	5.75	
E. H. Chadbourne, P. M., envelopes	4.27	
John B. Clarke Co., printing blanks	82.50	
Field & Cowles, inspecting elevators	55.70	
George D. Fitts, files, cards, books	11.92	
H. S. Foster, expenses to Boston and Lowell	4.48	
W. P. Goodman, stationery	5.65	
G. H. Hammond, expenses to Boston	10.00	
Charles A. Hoitt Co., 1 table, 1 mirror	27.25	
H. W. Hayward, testing concrete block	2.50	
E. H. Holmes, truckage	7.18	
Manchester Street Railway, tickets	50.00	
New England Telephone & Telegraph Co., use of telephone	36.35	
Novelty Company, typewriter ribbons	2.25	
Ruemely Press, printing	72.75	
Temple & Farrington Co., books and stationery	54.85	
J. Arthur Williams, printing	252.50	
J. R. Worcester & Co., checking plans for fire station	20.00	
		$1,051.40
Total expenditures		$5,830.37
Transferred to unappropriated money		669.63
		$6,500.00

Auditor's Department.

Appropriation		$3,500.00

EXPENDITURES.

LABOR.

James E. Dodge, salary as auditor	$2,000.00	
Lizzie M. Cogswell, services as clerk	936.00	
		$2,936.00

SUPPLIES.

John B. Clarke Co., binding Session laws...	$1.75	
L. M, Cogswell, cash paid:		
Laundry, stamps, postals, stationery.....	16.91	
E. H. Chadbourne, P. M., stamped envelopes	10.50	
James E. Dodge, paid for express, postage, delivering reports.....	5.50	
George D. Fitts, steel typewriter stand.....	15.00	
George D. Fitts, paper, files, bookcase, books	43.35	
W. P. Goodman, stationery.....	6.75	
Peter Harris & Son, grinding knives.....	.40	
Hale & Whittemore, cardboard.....	.15	
Kee Lox Manufacturing Co., paper, carbon paper, ribbon coupons.....	20.51	
Nutfield Press, paper and printing.....	4.75	
Temple & Farrington Co., paper.....	4.75	
John B. Varick Co., paper, baskets, twine...	3.97	
J. Arthur Williams, postals and slips.....	7.00	
		$137.29
Total expenditures.....		$3,073.29
Balance to new account.....		426.71
		$3,500.00

Mayor's Incidentals.

Appropriation	$300.00

EXPENDITURES.

Edward C. Smith.....	$300.00

Board of Public Works.

Appropriation	$13,100.00

EXPENDITURES.

SALARIES.

William McElroy, member of board.....	$750.00	
Byron Worthen, member of board.....	750.00	
Samuel J. Lord, engineer and clerk of board	1,599.96	
		$3,099.96

DIVISION SUPERINTENDENTS AND ASSISTANTS.

George P. Ames, division No. 2	$1,500.02	
Charles Francis, division No. 7	1,200.00	
Alphonse Laberge, division No. 10	1,200.00	
Emile A. Blanchet, timekeeper	917.28	
John P. Young, acting superintendent, division No. 2	499.99	
		$5,317.29

CLERICAL SERVICES.

Harrie H. Clement	$1,303.77	
Edson W. Keith	214.20	
Felix A. Lepage	625.92	
E. Park Stevens	82.96	
Leon B. Stevens	410.58	
Henry Quigley	47.00	
		$2,684.43

SUPPLIES, ETC.

Carl W. Anderson & Co., repairing time recorder and stamp	$3.00
Brodie Electric & Automobile Co., use of motor car	7.50
Boston & Maine Railroad, freight	.72
E. H. Chadbourne, P. M., stamps	50.00
John B. Clarke Co., printing, advertising, and binding	293.36
H. H. Clement, cash paid for express, etc.	38.45
George D. Fitts, folders and cards	3.40
L. G. Flanders, carbon paper	4.00
W. P. Goodman, stationery	52.66
John B. Hittell, 1 copy "Standard Paving Specifications"	5.00
Ideal Stamp Co., stamps	3.95
Kee Lox Manufacturing Co., ribbons and carbon paper	34.10
L'Avenir National, advertising traffic rules	53.25
Wm. McElroy, expenses of board to Concord and Boston sundry times	44.44
Manchester Union Co., advertising traffic rules	124.12
Manchester Union Co., cuts	4.00
Municipal Journal & Engineer, renewal subscription one year	3.00
New England Telephone & Telegraph Co., use of telephones	266.29

Francis Pratt, Jr., pens	$1.50	
E. L. Powers Co., subscription to magazine	1.00	
W. C. Spear, rental of motor car	7.50	
Ruemely Press, printing and binding	240.35	
Smith & Johnson, rent of motor car	7.50	
E. G. Soltmann, 1 steel straight edge	3.40	
R. P. Stevens & Co., cashiers' railing	108.75	
Standard Ice Co., ice	5.05	
Edward C. Smith, entertaining Board of Public Works of Nashua	17.25	
Temple & Farrington Co., stationery and binding	33.15	
Louis Vogel, use of teams	5.00	
Samuel Ward Co., staples for binder	3.25	
J. Arthur Williams, printing	51.55	
Byron Worthen, expenses of Messrs. Worthen and McElroy to Boston, Mass., attending meeting of Massachusetts Highway Commission	17.00	
		$1,493.49
Total expenditures		$12,595.17
Transferred to unappropriated money		504.83
		$13,100.00

Repairs of Highways.

Appropriation		$30,000.00

Expenditures.

Labor.

Division No. 2:		
January	$1,082.12	
February	38.60	
March	147.24	
April	2,119.96	
May	2,269.69	
June	1,047.25	
July	1,876.41	
August	639.19	
September	459.57	
October	399.35	
November	345.72	
December	149.11	
		$10,574.21

Division No. 4:		
October	$198.50	
November	77.00	
December	70.00	
		$345.50
Division No. 5:		
April	$2.82	
May	2.25	
June	5.06	
July	40.74	
August	110.82	
September	184.02	
October	256.80	
November	3.08	
December	27.46	
		$633.05
Division No. 7:		
January	$153.04	
February	241.86	
March	67.48	
April	548.88	
May	4.23	
June	904.85	
July	212.95	
August	43.46	
September	24.80	
October	174.65	
November	92.36	
December	21.02	
		$2,489.58
Division No. 9:		
April	$62.15	
May	13.89	
June	73.81	
July	277.89	
August	367.67	
September	418.04	
October	313.03	
November	123.87	
December	39.95	
		$1,690.30
Division No. 10:		
January	$467.94	
March	47.01	
April	356.88	
May	106.33	
June	371.23	
July	776.17	

August	$701.00	
September	1,478.31	
October	2,537.53	
November	635.56	
December	903.34	
		$8,381.30

STONE, GRAVEL, LUMBER.

Essex Trap Rock & Construction Co., broken stone	$233.37	
J. Hodge, fence cap	.84	
James Lurvey, gravel	10.00	
Massachusetts Broken Stone Co., broken stone	591.26	
Albert Nettel, gravel	7.50	
Milton Paige, gravel	92.80	
West Side Lumber Co., posts, slats, etc	17.02	
		$952.79

OTHER SUPPLIES AND REPAIRS.

A. B. Black Road Machinery Co., supplies	$70.87	
A. B. Black Road Machinery Co., 1 road machine	256.88	
Concord Foundry & Machine Co., castings	12.00	
Drew Machinery Agency, oil cups	2.00	
S. P. Dodge Co., material and labor	10.35	
Good Roads Machinery Co., 1 hone	22.00	
J. Hodge, lumber, glass, labor	3.57	
Manchester Traction, Light & Power Co., material and repairs	44.97	
Manchester Machine Works, material and labor	14.60	
Henry Parker, salt and oatmeal	9.45	
Pike & Heald Co., pipe, etc	15.77	
Robie Consolidated Concrete Co., repairs	12.44	
Wm. C. Spear, one-ton Federal truck	2,107.50	
John B. Varick Co., tools and hardware	448.28	
		$3,030.68

SUNDRIES.

Boston & Maine Railroad, freight	$19.94	
Edward N. Pearson, registration of truck	10.00	
Water Commissioners, use of water	30.00	
		$59.94
Total expenditures		$28,157.35
Transferred to unappropriated money		1,842.65
		$30,000.00

Snow and Ice and Cleaning Streets.

Appropriation	$15,000.00	
Received for labor	1,537.29	
Transferred from unappropriated money	2,624.98	
		$19,162.27

Expenditures.

Labor.

Division No. 2:		
January	$1,943.56	
February	1,556.73	
March	1,781.44	
April	1,218.80	
May	1,660.70	
June	800.28	
July	918.73	
August	760.30	
September	700.30	
October	925.72	
November	776.54	
December	693.19	
		$13,736.29
Division No. 4:		
March		$62.86
Division No. 5:		
January	$10.88	
April	1.12	
		$12.00
Division No. 7:		
January	$298.44	
February	74.64	
March	302.23	
April	58.42	
		$733.73
Division No. 9:		
January	$16.14	
March	17.96	
		$34.10
Division No. 10:		
January	$763.09	
February	480.61	
March	601.75	
April	452.39	
May	1,145.13	
July	28.96	
August	567.00	
November	133.30	
December	257.81	
		$4,430.04

SUNDRIES.

Boston & Maine Railroad, freight	$1.97	
Concord Foundry & Machine Co., castings	5.16	
George W. Dodge Shoe Co., rubber boots	8.50	
S. P. Dodge Co., sawing lumber	.75	
Manchester Machine Works, repairing scraper	4.73	
Osborne Manufacturing Co., push brooms	23.89	
Henry W. Parker, salt	18.00	
Pike & Heald Co., dippers, etc	26.45	
Robie Consolidated Concrete Co., sand	30.80	
John B. Varick Co., shovels, scoops, barrows	33.00	
		$153.25
Total expenditures		$19,162.27

Damage of Land Taken for Highways.

Transferred from unappropriated money		$3,042.05

EXPENDITURES.

Eugene E. Reed	$600.00	
Theophile J. Lebrecque	1,250.00	
George W. Rief	1,192.05	
		$3,042.05
Total expenditures		$3,042.05

Watering Streets.

Appropriation	$12,000.00	
Received for labor	10.00	
Transferred from unappropriated money	2,417.38	
		$14,427.38

EXPENDITURES.

LABOR.

Division No. 2:	
January	$64.57
February	114.84
March	25.42
April	11.02
May	171.97
June	781.58
July	1,801.80

August	$657.98	
September	207.27	
October	399.46	
November	54.43	
		$4,290.34
Division No. 7:		
May	$12.24	
June	97.50	
July	430.30	
August	82.20	
October	80.42	
		$702.66
Division No. 10:		
January	$25.35	
February	61.17	
March	5.98	
April	6.00	
May	92.63	
June	303.26	
July	511.33	
August	265.47	
September	30.17	
October	162.03	
November	17.27	
December	8.21	
		$1,488.87

SUPPLIES AND REPAIRS.

Amoskeag Manufacturing Co., supplies and labor	$122.47
American Car Sprinkler Co., applying oil with motor sprinkler	1,736.71
Barber Asphalt Paving Co., liquid asphalt	794.25
Boston & Maine Railroad, freight	85.19
Alex Champagne, maintenance of watering trough	3.00
S. P. Dodge Co., repairs	5.75
Chandler Eastman Co., 3 watering carts, and repairs	959.92
Manchester Coal & Ice Co., ice	55.00
Maxwell Ice Co., ice	55.00
C. F. McDonald, material and labor	8.86
J. B. McCrillis & Son, brazing oil pump	5.00
Standard Ice Co., ice	55.00
Standard Oil Co., road oil, etc	3,939.08
Standard Oil Co., oil sprayer nozzles	6.50
Joseph Palmer, repairs	43.40

Pike & Heald Co., pipe	$48.14	
John B. Varick Co., hardware	7.04	
C. L. Wolf, repairs	5.20	
		$7,935.51

SUNDRIES.

Sacred Heart hospital, board of William Kennedy	$10.00
Total expenditures	$14,427.38

Paving Streets.

Appropriation	$20,000.00	
Received for labor and material sold	10,649.50	
Transferred from unappropriated money	2,039.62	
		$32,689.12

EXPENDITURES.

LABOR.

Division No. 2:		
February	$8.37	
April	101.93	
May	343.58	
June	235.40	
July	1,109.85	
August	967.94	
September	953.69	
October	843.62	
November	419.14	
December	34.65	
		$5,018.17
Division No. 7:		
May	$289.69	
June	44.87	
		$334.56
Division No. 10:		
June	$56.59	
August	102.91	
September	318.14	
October	1,853.07	
November	1,265.10	
December	1,023.68	
		$4,619.49

SUNDRIES.

Frank A. Angier, batteries, and expenses to Boston engaging pavers	$6.35	
Charles A. Bailey, paving blocks	12,032.09	
Boston & Maine Railroad, freight, etc.	140.27	
Bunton & Bernard, repairs	6.25	
Barrett Manufacturing Co., paving pitch	36.98	
Champagne & Charnley, sawing	7.90	
Concord Foundry & Machine Co., castings	61.65	
Connolly & Diamond, paving	97.37	
G. W. Dodge Shoe Co., rubber boots	4.00	
Dyar Supply Co., supplies	23.12	
Hanscom Construction Co., labor, insurance, etc.	712.80	
Hohmann & Maurer Manufacturing Co., 1 asphalt thermometer	3.00	
E. H. Houtz, damage to automobile	20.00	
Manchester Machine Works, material and labor	2.18	
Palmer & Garmon, paving blocks	5,509.63	
H. W. Parker, cement	1,740.00	
Pike & Heald Co., pipe, etc.	21.22	
Robie Consolidated Concrete Co., repairs	2,219.90	
Sherburne & Co., paving hammers	37.75	
John B. Varick Co., hardware	28.07	
West Side Lumber Co., lumber	6.37	
		$22,716.90
Total expenditures		$32,689.12

Macadamizing and New Highways.

Appropriation	$30,000.00	
Appropriation from sale of bonds	76,145.00	
Received for labor and material sold	4,787.44	
Transferred from unappropriated money	7,117.41	
		$118,049.85

EXPENDITURES.

LABOR.

Division No. 2:	
May	$1,408.74
June	3,293.59
July	4,247.18
August	6,047.77
September	6,071.85

October	$3,401.84	
November	3,338.56	
December	1,314.75	
		$29,124.28
Division No. 7:		
May	$1,278.48	
June	1,052.16	
July	2,774.84	
August	3,158.34	
September	2,093.64	
October	962.52	
		$11,319.98
Division No. 10:		
June	$693.55	
July	1,154.23	
August	1,875.01	
September	413.15	
October	1,765.73	
November	2,319.77	
December	1,140.66	
		$9,362.10

SUNDRIES.

Amoskeag Manufacturing Co., waste	$15.00
W. G. Berry, insurance premium	255.15
Charles A. Bailey, 1 ten-ton road roller	995.00
Charles A. Bailey, curbing, etc	2,394.76
Boston & Maine Railroad, freight and car service	1,051.72
L. B. Bodwell, coal	1,089.92
Buffalo Steam Roller Co., supplies	46.50
James F. Cavanaugh, macadamizing	16,449.49
Concord Foundry & Machine Co., castings	133.20
Harry G. Clough, grading	25.00
Drew Machinery Agency, oilers	2.50
Dyar Supply Co., hose	94.50
Essex Trap Rock & Construction Co., broken stone	12,773.26
Frank A. Gay, labor	28.50
W. F. Head & Son, brick	1,302.03
James W. Hill Co., red flannel	1.25
Manchester Auto Garage, labor of chauffeur	31.50
Manchester Machine Works, labor on steam roller	14.39
Manchester Traction, Light & Power Co., repairs	14.58
Massachusetts Broken Stone Co., stone	14,939.44
Henry W. Parker, oatmeal and cement	502.50

Palmer & Garmon, curbing and cess-pool stone	$350.61	
B. H. Piper Co., pick handles	34.00	
Pike & Heald Co., pipe, etc	22.04	
Red Arrow Garage, gasoline	65.00	
Ranno Saddlery Co., curtains for steam rollers	12.00	
John A. Sheehan, insurance premium	111.60	
Standard Oil Co., oil and gasoline	227.17	
Vacuum Oil Co., oil	183.59	
John B. Varick Co., tools and hardware	577.88	
Waltham Trap Rock Co., broken stone	14,316.92	
West Side Lumber Co., grade stakes	182.49	
		$68,243.49
Total expenditures		$118,049.85

Grading for Concrete.

Appropriation	$4,500.00	
Received for labor and material sold	2,607.68	
Transferred from unappropriated money	4,935.32	
		$12,043.00

EXPENDITURES.

LABOR.

Division No. 2:		
January	$50.98	
April	17.98	
May	511.57	
June	567.07	
July	274.31	
August	1,139.36	
September	1,053.29	
October	1,249.86	
November	817.98	
December	935.73	
		$6,618.13
Division No. 7:		
May	$15.44	
June	193.31	
July	88.70	
October	49.15	
December	31.57	
		$378.17

Division No. 10:		
April	$31.69	
May	100.98	
June	488.48	
July	299.56	
August	277.43	
September	819.49	
October	445.33	
November	296.77	
December	73.86	
		$2,833.59

SUNDRIES.

C. A. Bailey, curbing	$2,202.62	
Boston & Maine Railroad, switching service	1.00	
John B. Varick Co., tools	9.49	
		$2,213.11
Total expenditures		$12,043.00

Scavenger Service.

Appropriation	$30,000.00	
Received cash on account accident insurance	91.65	
Transferred from unappropriated money	3,018.17	
		$33,109.82

EXPENDITURES.

LABOR.

Division No. 2:		
January	$2,230.72	
February	1,768.30	
March	1,812.85	
April	2,610.00	
May	2,062.96	
June	1,764.74	
July	1,951.16	
August	1,535.83	
September	1,471.98	
October	1,935.30	
November	1,716.54	
December	1,690.88	
		$22,552.06
Division No. 10:		
September	$3.52	
November	1.54	
		$5.06

SUNDRIES.

Amoskeag Manufacturing Co., material and labor	$55.75	
Mrs. W. H. Bickford, contract work	2,030.64	
Boston & Maine Railroad, freight	.38	
Bisson & Jodoin, repairs	23.20	
Cornplanter Refining Co., gasoline	359.40	
Concord Foundry & Machine Co., castings and labor	19.32	
Drew Machinery Agency, collar and shaft	3.60	
S. P. Dodge Co., planing lumber, etc	2.20	
Granite State Rubber Co., hose	1.30	
Gulf Refining Co., gasoline	161.30	
Kimball Carriage Co., harness	11.00	
Manchester Auto Garage, supplies	773.73	
Manchester Machine Works, repairs	2.50	
J. B. McCrillis & Son, labor and material	226.84	
John S. McElroy, paid for chauffeur license	5.00	
Peerless Motor Car Co., supplies	959.81	
Edward N. Pearson, registration of truck	20.00	
Levi J. Proctor, services as inspector	999.96	
Red Arrow Garage, gasoline	162.50	
Standard Oil Co., gasoline	202.57	
W. C. Spear, 1 Peerless motor truck, supplies, and repairs	4,262.17	
Stark Mills, duck	25.60	
Swan & Finch Co., oil	17.50	
John A. Sheehan, insurance premium	159.00	
John B. Varick Co., tools, etc	55.13	
Watson Wagon Co,. supplies	12.30	
		$10,552.70
Total expenditures		$33,109.82

Street Sweeping.

Appropriation	$11,500.00

EXPENDITURES.

LABOR.

Division No. 2:	
January	$419.11
February	44.00
March	50.38
April	745.12
May	570.24

June	$781.22	
July	990.22	
August	811.80	
September	793.98	
October	1,012.00	
November	814.00	
December	778.58	
		$7,810.65
Division No. 10:		
April	$160.34	
May	35.74	
		$196.08

SUNDRIES.

John Eisenmann & Co., brooms and scrapers	$40.00	
Studebaker Corporation, chain for sweeper	4.30	
H. Thompson, brooms and refilling brooms	207.00	
		$251.30
Total expenditures		$8,258.03
Transferred to unappropriated money		3,241.97
		$11,500.00

Machine Sweeping.

Appropriation	$1,000.00	
Transferred from unappropriated money	1,189.26	
		$2,189.26

EXPENDITURES.

LABOR.

Division No. 2:		
July	$426.03	
August	368.11	
September	352.80	
October	434.31	
November	143.44	
December	113.92	
		$1,838.61
Division No. 10:		
July	$17.94	
September	8.57	
		$26.51

SUNDRIES.

Boston & Maine Railroad, freight	$0.79	
Studebaker Corporation of America, 1 spindle	15.00	
H. Thompson, refilling sweepers	308.35	
		$324.14
Total expenditures		$2,189.26

Washing and Flushing Streets.

Appropriation		$2,000.00

EXPENDITURES.

Transferred to unappropriated money		$2,000.00

Bridges.

Appropriation	$8,500.00	
Appropriation from sale of bonds	1,455.00	
		$9,955.00

EXPENDITURES.

LABOR.

Division No. 2:		
January	$7.42	
April	13.29	
May	27.72	
July	47.33	
September	44.84	
		$140.60
Division No. 5:		
June		$47.20
Division No. 7:		
June	$3.96	
October	279.81	
November	213.51	
December	408.00	
		$905.28
Division No. 9:		
May	$6.21	
June	1.98	
July	3.96	
October	5.94	
		$18.09

Division No. 10:		
January	$2.00	
May	39.93	
June	7.92	
July	9.50	
August	12.94	
November	2.89	
December	15.38	
		$90.56

SUNDRIES.

Amoskeag Manufacturing Co., compressed air for cleaning bridge	$171.17	
Boston & Maine Railroad, freight	66.47	
Cavanaugh Bros. & Maxwell, plank	566.60	
Carbolineum Wood Preserving Co., Carbolineum	44.28	
Detroit Graphite Co., paint	809.83	
George W. Dodge Shoe Co., rubber boots	12.00	
N. O. Garland, gravel	4.20	
B. F. Greer, plank	154.56	
George McQuesten Co., lumber	232.05	
Putnam & Laflamme, insurance premium	94.93	
Robie Consolidated Concrete Co., repairs	257.76	
United Construction Co., material, and cleaning and painting	3,789.26	
John B. Varick Co., hardware	44.04	
John Winters, repairing chain	.60	
		$6,247.75
Total expenditures		$7,449.48
Transferred to unappropriated money		2,505.52
		$9,955.00

City Teams.

Appropriation	$20,000.00	
Received for labor and rent	6,890.17	
Transferred from unappropriated money	1,591.67	
		$28,481.84

EXPENDITURES.

LABOR.

Division No. 2:		
January	$1,374.59	
February	1,286.02	

March	$1,108.58	
April	1,435.31	
May	886.49	
June	688.21	
July	991.76	
August	645.18	
September	635.28	
October	775.58	
November	720.12	
December	655.05	
		$11,202.17
Division No. 7:		
August		$2.24
Division No. 10:		
February	$1.98	
April	21.82	
May	37.12	
August	1.87	
September	11.93	
		$74.72

GRAIN, HAY, STRAW.

W. W. Bassett	$615.91	
Arthur S. Brown	2,890.25	
Rt. Rev. G. A. Guertin	59.12	
F. H. Masse & Co	1,113.49	
H. W. Parker	2.75	
		$4,681.52

HARNESS AND REPAIRS.

Kimball Carriage Co	$18.25	
Ranno Saddlery Co	10.00	
Alva Silva	124.05	
Joseph Vogel & Co	85.45	
		$237.75

VETERINARY EXPENSES.

H. B. Dunton, V. S	$6.00	
J. L. Golden, V. S	338.29	
F. K. Hubbard	8.00	
A. J. Precourt	2.40	
		$354.69

HARDWARE AND TOOLS.

John B. Varick Co	$1,173.61

FUEL, FREIGHT, LIGHTS, WATER.

L. B. Bodwell, coal	$640.27	
Boston & Maine Railroad, freight	24.60	
Manchester Traction, Light & Power Co., electric lights at city farm and city stables	120.11	
People's Gas Light Co., gas	207.35	
Water Commissioners, use of water	61.20	
		$1,053.53

MATERIAL AND REPAIRS.

Adams Brothers, lime	$8.96
W. L. Aller, vulcanizing	28.12
American Locomotive Co., iron	24.00
W. W. Bassett, paid for car service	1.00
Bisson & Jodoin, iron, cut and bent	1.50
G. C. Blickensderfer Co., spark plugs	3.00
S. F. Bowser & Co., gasoline outfits	279.63
Champagne & Charnley, lumber and labor	35.25
Concord Foundry & Machine Co., castings	3.55
G. W. Dodge Shoe Co., rubber boots	4.50
S. P. Dodge Co., material and repairs	213.34
Drew Machinery Agency, tubing and strainer	5.21
N. A. Dunklee, shoe, tube and labor	37.20
A. G. Dyer, felt	.60
Farrell Brothers, electric material and labor	807.17
W. F. Head & Son, brick	91.38
J. Hodge, windows and frames, doors, etc.	383.11
George Howe, repairing clock	.75
Manchester Auto Garage, repairs and supplies	244.52
Manchester Supply Co., pipe	31.86
C. E. Mills Oil Co., oil and grease	8.30
J. B. McCrillis & Son, material and labor	50.60
A. J. McKelvie, stove, damper and pipe	26.10
F. L. Noyes, gravel roofing, etc	266.35
H. W. Parker, soap, ginger, salt	11.59
Pike & Heald Co., pipe	53.99
B. M. Prescott, automobile casing and inner tube	42.95
W. D. Quimby, 1 watering trough	60.00
Smith & Johnson, polish	1.25
W. C. Spear, supplies	118.75
Standard Oil Co., gasoline and oil	65.05
Swan & Finch Co., cylinder oil	10.50
Vacuum Oil Co., oil	90.81

Wm. H. Wardwell, axle grease	$3.25	
West Side Lumber Co., lumber and labor	51.11	
Winchester Tar Disinfectant Co., disinfectant	27.50	
		$3,092.75

SUNDRIES.

E. A. Blanchet, use of horse	$168.00	
Committee on city farm, rent of land and buildings	1,020.00	
W. G. Berry, insurance premium	105.25	
Everett & Bunton, insurance premium	20.00	
Hollis, French & Allen Hubbard, plans and specifications for garage	103.55	
Sallie Head Gault, first payment on land	5,000.00	
Alphonse Laberge, board of horse	156.00	
Manchester Coal & Ice Co., ice	4.06	
Edward N. Pearson, registration of motor car	30.00	
F. M. Ray, removing dead horse	2.00	
		$6,608.86
Total expenditures		$28,481.84

Repairs of Sewers.

Appropriation	$6,000.00	
Received for labor and material sold	825.84	
Transferred from unappropriated money	1,827.41	
		$8,653.25

EXPENDITURES.

LABOR.

Division No. 2:		
January	$384.94	
February	165.05	
March	812.57	
April	1,044.57	
May	185.65	
June	66.61	
July	86.79	
August	709.87	
September	101.60	
October	141.81	
November	161.28	
December	37.41	
		$3,898.15

Division No. 10:		
January	$130.87	
February	90.06	
March	330.55	
April	153.40	
May	367.78	
June	143.68	
July	40.69	
August	66.75	
September	426.54	
October	77.30	
November	143.93	
December	182.74	
		$2,154.29

MATERIAL, LABOR, ETC.

Boston & Maine Railroad, freight	$174.62	
Harold L. Bond Co., diaphragm pump, hose, etc.	67.50	
Concord Foundry & Machine Co., castings	673.11	
G. W. Dodge Shoe Co., rubber boots	11.00	
Dyar Supply Co., portable boiler and suction hose	496.50	
W. F. Head & Son, brick	187.23	
Manchester Supply Co., cement	241.60	
Pike & Heald Co., pipe	4.80	
Putnam & Laflamme, accident insurance premium	218.97	
John B. Varick Co., tools	525.28	
		$2,600.81
Total expenditures		$8,653.25

New Sewers.

Appropriation	$30,000.00	
Appropriation from sale of bonds	19,400.00	
		$49,400.00

EXPENDITURES.

LABOR.

Division No. 2:	
January	$1,663.80
February	357.84
March	19.96
April	657.15

May	$880.91	
June	781.30	
July	1,425.60	
August	1,932.16	
September	1,574.95	
October	1,776.21	
November	943.92	
December	1,685.31	
		$13,699.11
Division No. 7:		
January	$179.48	
June	361.21	
July	457.91	
August	280.56	
September	316.78	
October	981.24	
November	1,098.45	
December	881.03	
		$4,556.66
Division No. 10:		
January	$1,943.18	
February	67.55	
March	32.03	
April	76.67	
June	121.64	
July	863.24	
August	834.44	
September	287.57	
October	1,376.80	
November	641.26	
December	577.09	
		$6,821.47
Hanscom Construction Co., constructing culvert		$1,000.00

HARDWARE, SEWER PIPE, ETC.

Concord Foundry & Machine Co., castings	$2,076.69	
Drew Machinery Agency, 1 valve	5.00	
Eastern Clay Goods Co., sewer pipe	3,596.33	
The Inter-Oceanic Commercial Co., pick steel	70.00	
Manchester Supply Co., pipe	20.71	
Pike & Heald Co., pipe	18.27	
B. H. Piper Co., pick handles	16.00	
Standard Oil Co., oil	39.20	
Stark Mills, waste	64.50	
John B. Varick Co., hardware and tools	387.87	
		$6,294.57

BRICK, CEMENT, LUMBER.

Cavanaugh Bros. & Maxwell, sewer plank...	$178.68	
B. F. Greer, boards and plank.....	1,375.46	
W. F. Head & Son, brick.....	1,246.81	
Manchester Supply Co., cement.....	241.60	
H. W. Parker, cement.....	951.48	
West Side Lumber Co., plank.....	255.02	
		$4,249.05

SUNDRIES.

E. A. Blanchet, expenses to Concord, N. H., witness, Landry v. City.....	$2.64	
Boston & Maine Railroad freight.....	2,775.83	
L. B. Bodwell, coal.....	514.53	
G. W. Dodge Shoe Co., rubber boots.....	61.05	
Edward Deloria, expenses to Concord, N. H., witness, Landry v. City.....	1.79	
Hercules Gagnon, expenses to Concord, N. H., witness, Landry v. City.....	1.79	
Sonnie Grover, expenses to Concord, N. H., witness, Landry v. City.....	1.79	
Putnam & Laflamme, accident insurance premium	904.60	
W. H. Hamilton, settlement of claim.....	3.50	
		$4,267.52
Total expenditures.....		$40,888.38
Transferred to unappropriated money.....		8,511.62
		$49,400.00

Commons.

Appropriation	$5,085.00

EXPENDITURES.

LABOR.

January	$143.66
February	68.20
March	62.04
April	167.86
May	213.62
June	203.50
July	205.26
August	168.52
September	151.58

October	$293.26	
November	154.44	
December	61.60	
		$1,893.54
Division No. 10:		
July		$1.76
John Seastrom, superintendent		$900.00

ELECTRIC LIGHTS AND WATER.

Manchester Traction, Light & Power Co., electric lights	$79.08	
Water Commissioners, use of water	603.00	
		$682.08

SUNDRIES.

F. J. Bixby, plants	$210.02	
A. S. Brown, grain	1.75	
G. W. Dodge Shoe Co., rubber boots	13.70	
Concord Foundry & Machine Co., castings	25.24	
A. P. Horne & Co., plants	17.70	
Manchester Traction, Light & Power Co., lamps	7.13	
Pike & Heald Co., material and labor	3.88	
Robie Consolidated Concrete Co., sidewalks	235.10	
John B. Varick Co., tools and hardware	158.76	
N. J. Whalen, harness supplies	3.35	
West Side Lumber Co., lumber	13.92	
		$690.55
Total expenditures		$4,167.93
Transferred to unappropriated money		917.07
		$5,085.00

Stark Park.

Balance from last year unexpended	$977.23	
Appropriation	1,000.00	
		$1,977.23

EXPENDITURES.

LABOR.

January	$6.16
February	8.36
March	20.24
April	16.28

May	$91.74	
June	90.20	
July	140.50	
August	115.28	
September	71.28	
October	31.68	
November	45.76	
December	43.56	
		$681.04

SUNDRIES.

F. J. Bixby, plants	$73.29	
John B. Varick Co., seed and tools	11.39	
Water Commissioners, use of water	12.00	
		$96.68
Total expenditures		$777.72
Transferred to new account		977.23
Transferred to unappropriated money		222.28
		$1,977.23

Derryfield Park.

Appropriation	$1,000.00	
Received for labor	9.90	
		$1,009.90

EXPENDITURES.

LABOR.

January	$60.28	
February	22.66	
March	13.20	
April	49.72	
May	40.92	
June	73.26	
July	208.92	
August	44.00	
September	24.20	
October	77.00	
November	37.84	
December	99.44	
		$751.44

SUNDRIES.

W. G. Berry, insurance premium	$5.00	
F. J. Bixby, plants	32.14	
Pike & Heald Co., brass and pipe	3.01	
John A. Sheehan, insurance premium	6.00	
John B. Varick Co., pump	5.30	
Water Commissioners, use of water	27.00	
		$78.45
Total expenditures		$829.89
Transferred to unappropriated money		180.01
		$1,009.90

Lafayette Park.

Appropriation	$1,000.00

EXPENDITURES.

LABOR.

Division No. 10:	
February	$3.98

SUNDRIES.

West Side Lumber Co., sawing plank	$2.00
Total expenditures	$5.98
Transferred to unappropriated money	994.02
	$1,000.00

Prout Park.

Appropriation	$300.00

EXPENDITURES.

Transferred to unappropriated money	$300.00

Parker Common.

Appropriation	$800.00

EXPENDITURES.

LABOR.

July	$1.10	
August	293.32	
September	332.72	
October	65.44	
November	7.92	
December	7.92	
		$708.42

SUNDRIES.

John B. Varick Co., tools	$8.71
Total expenditures	$717.13
Transferred to unappropriated money	82.87
	$800.00

Rock Rimmon Park.

Appropriation	$2,000.00

EXPENDITURES.

SUNDRIES.

Sheffield A. Arnold, preliminary survey of park	$1,702.16
Total expenditures	$1,702.16
Transferred to unappropriated money	297.84
	$2,000.00

Miscellaneous Playgrounds.

Appropriation	$1,600.00

EXPENDITURES.

LABOR.

Division No. 7:		
February		$1.98
Commons:		
January	$18.28	

February	$95.20	
March	24.64	
April	48.62	
June	1.98	
August	108.12	
September	224.72	
October	150.58	
November	7.92	
		$680.06

SUNDRIES.

Amoskeag Manufacturing Co., rent of land	$1.00	
John B. Clarke Co., printing signs	1.75	
R. & J. Farquhar & Co., ivy	1.20	
John B. Varick Co., hardware, paint, seed	107.97	
Water Commissioners, use of water	29.96	
West Side Lumber Co., posts	20.00	
		$161.88
Total expenditures		$843.92
Transferred to unappropriated money		756.08
		$1,600.00

City Yard.

Appropriation	$5,500.00	
Transferred from unappropriated money	137.41	
		$5,637.41

EXPENDITURES.

LABOR.

May	$12.00	
June	54.82	
July	85.39	
		$152.21

SUNDRIES.

Amoskeag Manufacturing Co., fifth and final payment for land	$5,000.00	
George B. True, inspector	477.36	
John B. Varick Co., rope	7.84	
		$5,485.20
Total expenditures		$5,637.41

Brown-Tail and Gypsy Moth.

Appropriation	$3,000.00	
Received for taxes and labor	1,016.47	
Transferred from unappropriated money	1,696.76	
		$5,713.23

Expenditures.

LABOR.

Division No. 2:		
June		$52.25
Commons:		
March	$47.30	
April	4.18	
November	137.72	
December	141.68	
		$330.88

CONTRACT FOR REMOVING NESTS.

Daniel F. Cronin		$3,860.28

INSPECTORS ON PRIVATE AND CONTRACT WORK.

Aime Boisclair	$36.75	
S. A. Blood	90.50	
Denis F. Brassell	77.12	
Louis Filion	9.75	
R. B. Johnston	31.13	
W. A. Leeman	67.87	
G. H. Loveren	26.75	
W. J. Murphy	65.56	
James Riley	19.37	
George B. True	89.82	
		$514.62

REBATE ON TAX BILLS.

Mrs. Mary Adams	$2.34
Maude Baker	1.29
John W. Connoran	.32
James E. Dodge	.79
W. G. Garmon	1.00
F. X. Gravelin	1.17
John D. Healy	1.70
Ernest Hollman, Jr.	.83
J. Byron Huse	8.23
C. F. Joyce	1.17
Elizabeth B. Mann	2.04

H. W. Moore	$1.38	
Peter McQuillan	.60	
Harriet A. Parker heirs	1.17	
J. B. Stewart	.32	
John P. Reardon	5.50	
		$29.85

SUNDRIES.

E. H. Chadbourne, P. M., stamped envelopes	$78.57	
John B. Clarke Co., printing and binding	36.00	
Manchester Traction, Light & Power Co., installing moth traps, caring for, removing and replacing on lights throughout city	791.94	
John B. Varick Co., creosote, brushes, climbers, etc.	18.84	
		$925.35
Total expenditures		$5,713.23

Elm Leaf Beetle.

Appropriation	$3,000.00	
Transferred from unappropriated money	457.27	
		$3,457.27

EXPENDITURES.

LABOR.

Division No. 2:	
August	$3.84

SUNDRIES.

Sewall A. Blood, inspector of spraying	$79.86	
D. F. Cronin, contract for spraying trees	2,869.57	
John B. Varick Co., arsenate of lead	504.00	
		$3,453.43
Total expenditures		$3,457.27

Cutting and Trimming Trees.

Appropriation	$2,350.00	
Transferred from unappropriated money	61.54	
		$2,411.54

EXPENDITURES.

LABOR.

Division No. 2:		
April	$5.81	
May	131.80	
June	186.84	
July	129.94	
August	206.74	
September	221.57	
October	594.05	
November	475.57	
December	402.07	
		$2,354.39
Division No. 9:		
May		$10.11
Division No 10:		
December		$8.10

SUNDRIES.

People's Gas Light Co., coal tar	$0.50	
H. A. Piper, filing saws	.40	
Putnam & Laflamme, accident insurance premium	17.54	
George Rief, glass and setting	2.50	
John B. Varick Co., tools	18.00	
		$38.94
Total expenditures		$2,411.54

Public Wharf, Merrimack River.

Appropriation	$150.00

EXPENDITURES.

Transferred to unappropriated money	$150.00

Sanitary Drinking Fountain at City Hall.

Appropriation	$325.00	
Transferred from unappropriated money	90.84	
		$415.84

EXPENDITURES.

SUNDRIES.

Boston & Maine Railroad, freight	$6.45	
Concord Foundry & Machine Co., castings	4.95	
L. E. Knott Apparatus Co., 1 fountain	260.00	
L. E. Knott Apparatus Co., 3 bubblers	25.76	
C. F. McDonald, connecting fountain with sewer, etc	118.68	
		$415.84
Total expenditures		$415.84

Lighting Streets.

Appropriation		$65,300.00

EXPENDITURES.

ELECTRIC LIGHTS.

Manchester Traction, Light & Power Co.:		
January	$5,259.28	
February	5,260.02	
March	5,266.26	
April	5,266.29	
May	5,262.86	
June	5,266.29	
July	5,262.08	
August	5,299.96	
September	5,322.29	
October	5,330.14	
November	5,335.06	
December	5,336.62	
		$63,467.15

ARCHES.

Manchester Traction, Light & Power Co.:	
January	$78.04
February	77.09
March	69.25
April	68.78
May	69.25
June	52.63
July	58.57
August	57.14

September	$59.28	
October	64.98	
November	69.97	
December	74.72	
		$799.70
Manchester Traction, Light & Power Co.:		
Changing lamps and wiring arches	$500.00	
Tungsten lamps	126.22	
		$626.22
SUNDRIES.		
W. J. Freeman, automobile hire	$12.00	
W. Y. Hadlock & Co., automobile hire	7.50	
Roy & Gadbois, automobile hire	5.00	
		$24.50
Total expenditures		$64,917.57
Transferred to unappropriated money		382.43
		$65,300.00

Engineer's Department.

Appropriation	$10,500.00

EXPENDITURES.

LABOR.

Samuel J. Lord, general engineer	$1,400.03	
Harold T. Baker	47.25	
Ralph E. Baker	257.33	
Frank Carr	54.80	
L. Prescott Cox	85.83	
Harold L. Davis	77.66	
Alfred T. Dodge	1,068.35	
Russell W. Garland	29.75	
Edson W. Keith	572.47	
Paul Kirvan	94.50	
Felix A. Lepage	59.50	
A. D. Lewis	49.37	
Harold M. Haskell	1,034.22	
Lawrence A. O'Connor	557.18	
Donald T. Paige	52.10	
George W. Wales	1,285.20	
Henry Worthen	903.20	
Horace Wyman	201.84	
Harrie M. Young	1,148.16	
		$8,978.74

SUPPLIES AND OFFICE EXPENSES.

Amoskeag Manufacturing Co., labor on transit rods	$0.80	
C. A. Bailey, stone bounds	47.50	
C. L. Berger & Co., repairs and supplies	25.60	
Boston & Maine Railroad, freight	1.29	
Carl K. Beadle, packing maps	3.75	
John B. Clarke Co., printing cards, etc	5.75	
John B. Clarke Co., 300 annual reports	44.85	
Farrell Bros., material and labor	1.75	
George D. Fitts, record cards	.20	
Julien P. Friez, forms for rain recorder	5.25	
Frank A. Gay, labor	49.25	
W. P. Goodman, stationery	.94	
Harry L. Gould, bench mark reports, 1911, 1912	24.00	
Peter Harris & Son, making keys	.50	
Manchester Auto Garage, repairs	4.75	
Manchester Hardware Co., hardware	2.64	
Manchester Machine Works, brazing	1.25	
C. F. McCarty, lettering sign	.30	
New England Telephone & Telegraph Co., use of telephone	39.87	
Edward N. Pearson, chauffeur license	5.00	
Ruemely Press, printing cards	3.50	
E. G. Soltmann, supplies	78.18	
Spaulding Print Paper Co., paper	1.50	
Sanborn Carriage Co., painting wagon	24.10	
W. E. Spear, rental of truck	600.00	
W. E. Spear, supplies	1.60	
Standard Ice Co., ice	5.05	
Temple & Farrington Co., binding records	.85	
John B. Varick Co., hardware	11.96	
Joseph Vogel & Co., irons for wagon	1.50	
Walker Lithograph & Publishing Co., 1 city map, on account	481.66	
West Side Lumber Co., grade stakes	40.62	
J. Arthur Williams, printing	5.50	
		$1,521.26
Total expenditures		$10,500.00

Health Department.

Appropriation	$23,600.00

Expenditures.

SERVICES.

John B. Cavanaugh, salary as member of board	$380.00	
Gustave Lafontaine, M. D., salary as member of board	380.00	
W. K. Robbins, salary as member of board	380.00	
William B. Blake, sanitary inspector	999.99	
Joseph X. Duval, sanitary inspector	874.98	
John F. Looney, sanitary inspector	999.99	
Carl O. Seaman, plumbing and milk inspector	1,100.04	
M. Alma Fracker, clerk	650.00	
		$5,765.00

PRINTING AND STATIONERY.

John B. Clarke Co., printing	$233.25	
The Emerald, publishing milk rules	7.50	
George D. Fitts, ruled cards	2.75	
W. P. Goodman, stationery	5.85	
L'Avenir National, printing and advertising	38.90	
Manchester Union Co., publishing rules	23.11	
E. A. Stratton Co., tags	4.00	
		$315.36

TEAMS AND CAR FARES.

W. B. Blake	$14.10	
Charles Boisclair	8.00	
Borden & Connors	2.00	
J. M. Dery	4.00	
Joseph X. Duval	17.50	
M. A. Fracker	10.00	
J. D. French	48.00	
W. J. Freeman	75.00	
John F. Looney	13.55	
Roy & Gadbois	63.75	
Carl O. Seaman	14.80	
Louis Vogel	9.00	
		$279.70

OFFICE EXPENSES AND SUPPLIES.

American Express Co., charges	$7.30
Brodie Electric & Automobile Co., motor cars and supplies	1,646.54
W. B. Blake, operator's license	3.00

Carter, Rice & Co., gummed paper.....	$22.50	
James S. Cavanaugh, accident insurance premium	76.00	
C. DeMoulpied & Co., desk and chair.....	29.00	
Joseph X. Duval, license for automobile....	3.00	
Herbert Dunnington, antitoxin and supplies	674.12	
Eimer & Amend, laboratory supplies.....	13.23	
M. Alma Fracker, laundry, postage, freight, and "Union" one year.....	39.05	
Granite State Rubber Co., rubber sheeting..	4.05	
C. A. Hoitt Co., matting, shades and labor..	19.66	
John F. Looney, operator's license.....	3.00	
J. H. Mendell Co., material and work on cases	225.00	
J. B. McCrillis & Son, 1 tire and repairs.....	18.80	
Manchester Hardware Co., supplies.....	12.18	
Manchester Traction, Light & Power Co., electric lights.....	15.32	
Manchester Traction, Light & Power Co., repairing stove.....	1.00	
Manchester Water-works, rent of garage....	3.00	
Manchester Water-works, gasoline and oil..	3.43	
Maxwell Ice Co., ice.....	19.20	
New England Telephone & Telegraph Co., use of telephones.....	87.29	
People's Gas Light Co., gas.....	6.93	
J. H. Rhodes & Co., formaldehyde sprinklers	8.00	
Rydin & Callaghan, antitoxin.....	4.25	
Schieffelin & Co., formaldehyde.....	76.29	
J. A. Scully, oil heater.....	5.75	
C. O. Seaman, supplies for automobile, expenses to Concord, Boston and Worcester	30.48	
A. G. Straw, M. D., diphtheria examinations	33.00	
John B. Varick Co., supplies.....	94.60	
Walsh & Cummings, antitoxin and supplies..	1,371.29	
N. J. Whalen, 1 bag.....	5.00	
Water Commissioners, rent of garage and automobile, oil and gasoline.....	30.19	
		$4,591.45

PEST HOUSE.

J. M. Dery, wood.....	$12.75	
J. H. DeCourcy Coal Co., coal.....	21.05	
W. E. Dunbar & Sons, coal.....	10.00	
C. A. & A. W. Flint, wood.....	6.50	
Granite State Rubber Co., gloves and sheeting	3.35	

John B. Hall Co., medicine and supplies.....	$11.67	
J. F. Looney, tumblers.....	.30	
Manchester Traction, Light & Power Co., electric lights.....	17.44	
New England Telephone & Telegraph Co., use of telephone.....	21.00	
W. M. Parsons, M. D., services.....	10.00	
Mrs. A. D. Sherer, services and board of patients	466.31	
A. D. Sherer, labor.....	299.00	
Water Commissioners, use of water.....	6.40	
Maurice Watson, M. D., vaccinations and visits	735.30	
John R. Willis & Co., wood.....	7.25	
		$1,628.32

ISOLATION HOSPITAL.

E. M. Bryant & Co., electric supplies and labor	$2.07
J. P. Chatel, whiskey and brandy.....	15.00
J. M. Dery, wood and coal, etc.....	92.75
C. DeMoulpied & Co., furniture.....	15.05
Dowd Brothers, whiskey and brandy.....	15.00
H. E. Dunnington, medicine and supplies....	59.13
J. H. DeCourcy Coal Co., coal.....	398.18
W. E. Dunbar & Sons, coal.....	186.25
Farrell Brothers, electric supplies, etc.....	10.87
Mrs. Selma Flodin, services as matron.....	345.00
Mrs. Selma Flodin, board of patients.....	2,408.88
C. A. & A. W. Flint, wood.....	47.75
L. M. Folsom, sheets, robes, etc.....	45.45
W. J. Freeman, hacks to hospital.....	6.00
Granite State Rubber Co., sheeting, tubing, etc.	10.77
C. J. & L. C. Greer, repairing range.....	9.03
James W. Hill Co., oilcloth and gowns.....	11.40
C. A. Hoitt Co., bedding and shades.....	42.80
Moise Livernois, labor grading.....	12.25
F. D. Leighton, labor on boiler.....	2.40
Lowell Bleachery, remnants.....	63.00
Manchester Traction, Light & Power Co., electric lights, etc.....	160.44
Manchester Coal & Ice Co., ice.....	38.85
R. E. Marden, loam.....	14.00
New England Telephone & Telegraph Co., use of telephones.....	68.88

F. E. Nelson, crockery, etc.	$8.16	
A. D. Sherer, labor	10.72	
James A. Scully, 12 blankets	48.00	
John B. Varick Co., lawn seed	.60	
Water Commissioners', use of water	37.50	
John R. Willis & Co., coal and wood	19.75	
		$1,205.93

SERVICES OF NURSES.

Margaret J. Bruce	$786.00	
Lucy Cronin	81.00	
Mary T. Durning	36.00	
Margaret E. Harris	144.00	
Mary R. Kinneen	117.00	
Katherine Lehan	477.00	
Annie M. Mitchell	255.00	
Margaret McDerby	276.00	
Grace F. Pierson	204.00	
Jennie J. Stevenson	300.00	
Grace L. Williams	198.00	
		$2,874.00

MEDICAL INSPECTORS.

W. L. Biron, M. D.	$181.70	
Clarence O. Coburn, M. D.	505.35	
R. H. Dillon, M. D.	545.25	
N. E. Guillet, M. D.	382.10	
John C. O'Connor, M. D.	325.40	
Frank N. Rogers, M. D.	177.15	
Zatae L. Straw, M. D.	494.85	
E. C. Tremblay, M. D.	532.30	
		$3,144.10

SUNDRIES.

W. B. Blake, medicine	$0.35	
Joseph X Duval, milk samples	68.52	
Gustave Lafontaine, M. D., expenses attending International Congress of Hygiene at Washington, D. C.	85.00	
		$153.87
Total expenditures		$22,957.73
Transferred to unappropriated money		642.27
		$23,600.00

City Library.

Appropriation		$10,500.00

Expenditures.

LIBRARIAN AND ASSISTANTS.

F. Mabel Winchell, librarian	$1,000.00	
Ruth H. Bartlett	487.50	
Everett Bean	8.35	
Caroline B. Clement	489.50	
Ruth Dudley	337.50	
Rachel Flint	559.00	
Margaret Grant	368.25	
C. F. Hamer	361.50	
Maria F. Kidder	372.50	
Gladys Lane	45.00	
Clayton McLane	67.15	
Max McConachie	148.00	
Ralph M. Page	81.25	
Albro P. Reed	55.00	
Una Vincent	405.00	
Clara G. Wilson	336.25	
		$5,121.75

INSURANCE, FUEL, LIGHTS, TELEPHONE, WATER.

L. B. Bodwell, coal	$414.74	
Clarence M. Edgerly, insurance premium	125.00	
Manchester Traction, Light & Power Co., electric lights	431.14	
New England Telephone & Telegraph Co., use of telephone	51.88	
People's Gas Light Co., gas	46.86	
Water Commissioners, use of water	12.75	
		$1,082.37

SUNDRIES.

John B. Clarke Co., printing	$26.10
H. M. Corning, delivering books	2.00
George D. Fitts, glue	4.73
W. P. Goodman, books	85.93
Gaylord Brothers, binders, daters, etc	14.57
Gustave Hecker, services as janitor	765.00
C. A. Hoitt Co., chairs	12.00
J. G. Jones, truckage	2.80
Library Bureau, cases and cards, book, etc	243.00
Manchester Coal & Ice Co., ice	4.50

Temple & Farrington Co., paper, binding and rebinding	$512.43	
Trustees of library, new books	2,500.00	
John B. Varick Co., hardware	10.40	
J. Arthur Williams, printing	112.30	
		$4,295.76
Total expenditures		$10,499.88
Transferred to unappropriated money		.12
		$10,500.00

Fire Department.

Appropriation	$110,000.00

Expenditures.

SERVICES.

Thomas W. Lane, chief engineer	$2,100.00	
Thomas F. Fitzsimmons, assistant engineer	287.50	
Edwin W. Merrill, clerk and assistant engineer	361.76	
Arthur Provost, assistant engineer	287.50	
John F. Seaward, assistant engineer	287.50	
		$3,324.26

TEAMSTERS' AND ENGINEERS' PAY-ROLL.

January	$4,674.11	
February	4,628.91	
March	4,631.43	
April	4,630.66	
May	4,632.41	
June	4,629.68	
July	5,109.15	
August	5,109.15	
September	5,107.45	
October	5,109.15	
November	5,107.40	
December	5,109.20	
		$58,478.70

CALL MEMBERS.

Engine Company No. 1	$1,298.50	
Engine Company No. 2	1,298.50	

Engine & Ladder Company No. 3	$2,760.50	
Engine Company No. 4	1,298.50	
Engine & Ladder Company No. 5	2,760.50	
Engine & Ladder Company No. 6	2,760.50	
Engine Company No. 7	2,760.50	
Chemical Engine Company No. 1	377.00	
Combination Company No. 2	1,298.50	
Aerial Truck Company No. 1	1,661.50	
Hose Company No. 1	1,117.00	
Hose Company No. 2	1,117.00	
Hose Company No. 3	1,117.00	
		$21,625.50

OTHER LABOR.

W. F. Bruton	$4.00	
Charles H. Burhart	388.63	
James D. Filleul	260.16	
T. L. Kellogg	113.75	
Archie Miller	413.64	
Fred D. Parnell	307.75	
Ross Tucker	1.00	
Thomas J. Welch	235.25	
		$1,724.18

LAUNDRY.

Mrs. M. P. Collins	$2.00	
Mrs. Marie Coulombe	26.75	
Frank C. Curtis	22.45	
Marion R. Laird	104.00	
Alice S. Merrill	5.83	
N. H. Towel Supply Co	39.00	
Oneeda Laundry	93.45	
Mrs. Celon D. Stevens	20.80	
Mrs. H. L. Tebbetts	8.50	
		$322.78

FURNITURE AND BEDDING.

C. DeMoulpied & Co	$113.74	
James W. Hill Co	121.10	
C. A. Hottt Co	31.50	
James A. Scully	12.00	
		$278.34

PRINTING AND STATIONERY.

John B. Clarke Co., printing	$313.90	
John B. Clarke Co., printing reports	51.46	
George D. Fitts, tray and index	1.22	
W. P. Goodman, stationery	17.03	
Ideal Stamp Co., ink, pad, dater	.75	
		$384.36

FUEL, LIGHTS, TELEPHONE, WATER.

J. N. Brown, weighing coal	$12.50	
L. B. Bodwell, wood and coal	1,858.19	
C. B. Clarkson, weighing coal	18.75	
G. A. Campbell & Co., coal	24.00	
W. E. Dunbar & Sons, wood	24.75	
C. A. & A. W. Flint, wood	74.25	
Manchester Traction, Light & Power Co., electric lights	449.95	
Maxwell Ice Co., wood	4.00	
Moore & Preston Coal Co., wood	8.25	
New England Telephone & Telegraph Co., use of telephones	63.15	
People's Gas Light Co., gas	575.52	
Water Commissioners, use of water	272.94	
West Side Lumber Co., wood	5.00	
John R. Willis & Co., coal	447.83	
		$3,839.08

SUPPLIES.

Amoskeag Manufacturing Co., castings	$13.31
American Locomotive Co., material and labor	3.75
Boston Belting Co., valves	14.84
Brewer & Co., supplies	7.20
Cornelius Callahan Co., supplies	1,624.36
Joel S. Daniels, 2 rollers	.65
Frank E. Fitts Manufacturing & Supply Co., waste	80.06
Fisk Rubber Co., bolted cases	138.95
A. L. Franks & Co., wire	12.08
Granite State Rubber Co., packing	7.47
Max Hawkins & Co., oil	3.80
J. Hodge, lumber	17.74
Independent Oil Co., oil	53.46
Knox Automobile Co., supplies	83.34
O. F. Kress & Son, 2 three-gallon chemical heads	14.00
F. T. Lord Polish Co., polish	20.00
New Departure Manufacturing Co., foot pin and washer	.84
F. F. Osgood, leather	1.16
Parnell Brothers, soap	44.80
H. S. Putney, automobile supplies, etc	105.10
Red Arrow garage, gasoline	3.77

John H. Stevens, tubes and packing	$10.57	
Standard Oil Co., gasoline	72.14	
Stuart-Howland Co., electric supplies	63.15	
Stark Mills, duck	26.24	
Talbot Dyewood & Chemical Co., oil vitriol	35.02	
F. H. Thomas Co., surgical supplies	18.75	
J. F. Thomson, oil	4.40	
J. H. Trendennick & Co., disinfectant	26.00	
John B. Varick Co., hardware, etc	652.99	
Wetmore-Savage Co., supplies	30.30	
Western Electric Co., lamps	46.13	
		$3,236.27

REPAIRS, ETC.

Farrel Brothers, 2 switch backs	$0.10	
A. L. Franks & Co., electric material and repairs	46.29	
C. A. Hoitt Co., re-covering chairs	3.25	
James W. Hill Co., repairing flag	1.50	
H. J. Lawson, repairs	4.36	
Manchester Machine Works, castings and repairs	38.99	
Manchester Plating Co., brass and nickel plating	4.00	
Manchester Welding Co., labor on cover	2.50	
F. F. Osgood, repairing cover	3.50	
Pike & Heald Co. repairs	2.85	
Red Arrow garage, gasoline	.91	
Sam Sandberg, repairs	2.00	
Edward Sargent, making keys, etc	1.15	
John H. Stevens, material and labor	6.70	
		$118.10

HORSES, VETERINARY SERVICES AND MEDICINE.

F. T. Arbuckle, V. S., professional services	$230.00	
Cavanaugh Brothers, balance due on horses	287.70	
F. J. Clark, V. S., services and medicine	10.50	
Dyer & Chipman, supplies	32.90	
Eames Drug Co., supplies	.60	
Lewis G. Gilman, medicine	2.86	
John J. Holland, supplies	39.75	
J. A. Marshall, medicine	2.71	
Henry W. Parker, 1 horse	300.00	
Alfred C. Pfefferkorn, V. S., services	4.50	
A. D. Smith, ginger	1.50	
Walsh & Cummings, supplies	12.07	
Winchester Tar Disinfectant Co., disinfectant	29.50	
		$954.59

ENGINE REPAIRS.

American Locomotive Co.	$11.25	
S. P. Dodge Co.	7.55	
H. J. Lawson	21.40	
J. B. McCrillis & Son	1,210.72	
MacDonald Brothers	63.20	
Manchester Machine Works	1,347.73	
Sanborn Carriage Co.	39.80	
G. F. Wenzel	59.10	
		$2,760.75

BLACKSMITHING.

Connor & Grossman	$62.50	
H. J. Dexter	118.65	
Edward Dupont	82.50	
Frank Dupont	151.00	
J. D. French	152.05	
L. M. George	7.50	
J. F. McDonald & Co.	492.85	
McDonald Brothers	197.75	
Joseph Marcoux	79.00	
S. Sandberg	1.20	
John Stack	67.00	
J. O. & L. P. Tremblay	210.00	
L. P. Tremblay	82.75	
G. F. Wenzel	35.60	
		$1,740.35

HAY, GRAIN, ETC.

Adams Brothers	$1,324.27	
Arthur S. Brown	2,728.47	
George H. Brown	94.05	
William Clark	241.60	
G. W. Dickey estate	28.81	
G. H. Dunbar	2.00	
Charles S. Fifield	450.57	
F. H. Masse & Co.	3,108.55	
Partridge & Co.	4.40	
State Industrial School	96.00	
Louis Vogel	94.79	
H. C. Whedon	1,561.64	
		$9,735.15

HARNESS SUPPLIES AND REPAIRS.

Charles E. Berry	$10.60
William L. Comire	.75
Elm Harness Store	1.00

Ranno Saddlery Co.	$5.90	
Joseph L. Vogel & Co.	30.70	
N. J. Whalen	99.25	
		$148.20

SUNDRIES.

Aid-Ant Remedy Co., 12 cans Remedy	$4.20	
American Express Co., charges	3.50	
Boston & Maine Railroad, freight	4.20	
Brook Street Market, lunch furnished men	.91	
William Corey, boarding horse	33.21	
William Corey estate, boarding horse	21.43	
Ferdinand Farley, shorthand notes and transcription of same, investigation of Family Shoe Store fire	46.43	
Elizabeth M. Hayes, rent of barn	9.00	
W. Y. Hadlock, use of automobile	7.50	
E. H. Holmes, freight and cartage	25.32	
A. P. Horne & Co., 1 tree to replace one broken by truck	1.50	
T. W. Lane, paid for express	28.31	
William H. Morgan, expenses of committee to Canton Junction inspectig hose	7.00	
W. H. H. Perkins, lunch, brush fire	6.10	
Arthur W. Phinney, expenses joint committee on fire-alarm telegraph to Boston	21.50	
Victor W. Roy, automobile to Medford, Mass.	6.89	
		$227.00
Total expenditures		$108,897.61
Transferred to unappropriated money		1,102.39
		$110,000.00

Fire-Alarm Telegraph.

Appropriation	$5,500.00

EXPENDITURES.

LABOR.

January	$170.00
February	170.00
March	170.00
April	170.00
May	170.00
June	170.00

July	$170.00	
August	170.00	
September	170.00	
October	170.00	
November	170.00	
December	170.00	
		$2,040.00
Lewiell M. Chase	$554.75	
J. E. Rogers	350.00	
		$904.75

SUPPLIES AND REPAIRS.

William Brophy, services as expert	$27.50	
George B. Cressey paint and labor	9.80	
Derryfield Co., blocks and rosette	.75	
A. L. Franks & Co., supplies	6.61	
C. H. French, expenses inspecting factories that bid on cable for new system, and making tests	59.17	
Gamewell Fire-Alarm Telegraph Co., supplies and repairs	1,060.41	
F. S. Hardy & Co., electrical supplies	299.72	
J. Hodge, lumber and labor	89.23	
Manchester Traction, Light & Power Co., electricity	67.40	
J. B. McCrillis & Son, labor on pruner, bar, and bolts	3.70	
New England Telephone & Telegraph Co., use of telephone	30.00	
Pike & Heald Co., material and labor	4.84	
H. A. Piper, filing saws	.95	
C. W. Powell, filing saws	.75	
S. Sandberg, drilling, cutting pipe	3.05	
John H. Stevens, pipe and labor	9.64	
John B. Varick Co., hardware	87.11	
Western Electric Co., supplies	264.47	
T. J. Welch, labor	63.00	
		$2,088.10

SUNDRIES.

E. H. Holmes, freight and cartage	$51.44	
Western Union Telegraph Co., telegram	.49	
		$51.93
Total expenditures		$5,084.78
Transferred to unappropriated money		415.22
		$5,500.00

Hydrant Service.

Appropriation	$23,075.00

EXPENDITURES.

Water Commissioners, hydrant rentals	$23,075.00

Police Commission.

Appropriation	$79,780.00

EXPENDITURES.

SERVICES.

Michael J. Healy, chief of police	$3,000.00	
John F. Cassidy, deputy chief	1,800.00	
John F. Griffin, clerk	1,189.50	
Thomas R. Varick, salary as commissioner	150.00	
George A. Blanchet, salary as commissioner	100.00	
Peter A. Farrell, salary as commissioner	100.00	
E. Bernette Brown, police matron	426.00	
Regular and special police	62,257.64	
		$69,023.14

FEEDING PRISONERS.

National Biscuit Co	$61.04	
Syndicate Cafe	227.67	
		$288.71

PRINTING AND STATIONERY.

John B. Clarke Co., printing	$38.25	
W. P. Goodman, diaries and stationery	88.90	
Temple & Farrington Co., binding books	16.15	
		$143.30

PATROL SYSTEM EXPENSES.

Adams Brothers, grain, etc	$249.93
Ame & Co., "Standard Food"	6.50
Automatic Time Stamp Co., ribbons	4.00
Arthur S. Brown, hay and grain	181.04
Boston & Maine Railroad, freight	7.64
Beauregard & Brady, new tire for wagon	8.00
George Blanchet, insurance premium	175.00
B. Bresnahan, labor on wires	6.00
G. H. Buckminster Co., signal supplies	32.63
H. B. Dunton, V. S., services and medicine	27.00

S. P. Dodge Co., repairs	$48.45
Fisk Rubber Co., 1 case, 2 tubes	100.20
W. J. Freeman, use of horses and wagon	12.00
L. M. George, blacksmithing	137.25
Abraham Green, use of shed	60.00
Granite State Rubber Co., tubing	4.00
Gulf Refining Co., gasoline	7.10
F. D. Harper, batteries	24.00
James Harlan, labor	12.50
M. J. Healy, paid expenses of S. J. Hadlock two weeks at Knox automobile factory	40.00
L. W. Howard, paper fastener	3.50
Hendee Manufacturing Co., supplies	73.27
Independent Oil Co., gasoline and kerosene oil	187.02
Charles Kean, labor	30.00
Kimball Carriage Co., spreaders	1.50
Knox Automobile Co., combination patrol and ambulance	4,595.00
Knox Automobile Co., ground glass shades for lights	10.00
Knox Automobile Co., supplies	22.04
L. S. Knowlton, clipping horse	2.00
Manchester Rendering Co., tallow	2.50
Mitchell Manufacturing Co., badges	2.25
Metropolitan Air Goods Co., ambulance mattress	16.00
H. O. Morin, desk	45.90
James Murphy, varnishing ambulance, etc.	20.85
New Method Vulcanizing Co., vulcanizing	4.53
Neostyle Company, paper and ink	76.10
Charles E. Perry Co., register paper	35.84
Frederick Pearce Co., supplies	680.44
Partridge & Co., grain	22.00
Louis M. Pignolet, 1 ammeter	12.60
Clarence Prescott, labor	70.00
Red Arrow Garage, bulbs for headlights	8.30
Remington Typewriter Co., 2 typewriters less exchange	110.00
Sanborn Carriage Co., repairs	15.80
Stromberg-Carlson Telephone Manufacturing Co., 3 keys	5.25
Sexton Can Co., 1 measure	3.00
J. O. & L. P. Tremblay, horseshoeing	6.50
James A. Scully, linoleum	67.50
United Electric & Apparatus Co., repairs and supplies	102.60

Vacuum Oil Co., oil and grease	$28.07	
Western Electric Co., supplies	162.30	
N. J. Whalen, harness repairs	62.50	
		$7,628.40

HARDWARE AND REPAIRS.

Peter Harris & Son, repairing handcuffs	$1.75	
J. Hodge, lumber	3.28	
Leighton Machine Co., fitting gear	1.00	
Manchester Hardware Co., hardware	1.60	
Manchester Machine Works, labor on automobile	1.75	
Novelty Company, cleaning and repairing typewriter	6.50	
Harry Piper, filing saws	.40	
John B. Varick Co., hardware, etc	352.50	
		$368.78

TELEPHONE AND TELEGRAPH.

New England Telephone & Telegraph Co., use of telephones	$165.99	
Western Union Telegraph Co., telegrams and clock rental	15.54	
		$181.53

SUNDRIES.

Oscar Bemis, time and expenses, Springfield	$15.00	
Ferdinand Farley, stenographic report and transcript, "Free Alliance" speech	25.00	
Jones, Warren, Wilson & Manning, legal services	235.00	
John B. Hall Co., medicine and supplies	23.50	
Nellie Hardy, caring for lost children	25.00	
M. J. Healy, expenses to Boston, Springfield, Hartford, Bridgeport	35.00	
M. J. Healy, expenses attending International Association Chiefs of Police at Toronto	100.00	
James W. Hill Co., 12 slips	1.80	
John J. Holland, supplies	7.90	
E. H. Holmes, truckage	2.28	
E. S. Leslie, photographing criminals	104.00	
George A. Livingston, searching for drowned man	4.00	
N. H. Towel Supply Co., laundry work	3.33	

C. R. Sawyer & Co., use of automobile.....	$8.00	
Walsh & Cummings, gauze.....	1.65	
		$591.46
Total expenditures.....		$78,225.32
Transferred to new account.....		400.00
Transferred to unappropriated money.....		1,154.68
		$79,780.00

Police Station.

Appropriation		$3,000.00
EXPENDITURES.		
SERVICES.		
Frank P. Wiggin, janitor.....		$823.50
FUEL, LIGHTS, WATER.		
L. B. Bodwell, coal.....	$629.34	
Manchester Traction, Light & Power Co., electric lights.....	261.70	
Maxwell Ice Co., wood.....	3.50	
People's Gas Light Co., gas.....	61.54	
D. M. Poore Coal Co., wood.....	21.80	
Water Commissioners, use of water.....	191.10	
John R. Willis & Co., coal.....	13.34	
		$1,182.32
SUNDRIES.		
E. M. Bryant & Co., insulating joints.....	$1.50	
John J. Holland, disinfectants, etc.....	35.00	
C. A. Hoitt Co., 1 table.....	3.75	
Peter Harris & Son, 1 key.....	.15	
A. L. Franks & Co., lamps.....	69.92	
J. J. Moreau & Son, tin cups, etc.....	6.50	
N. H. Towel Supply Co., laundry work.....	53.48	
Pike & Heald Co., pipe clips.....	1.32	
James A. Scully, linoleum.....	1.87	
John H. Stevens, pipe.....	.90	
Worrell Manufacturing Co., insect exterminator	24.00	
		$198.39
Total expenditures.....		$2,204.21
Transferred to unappropriated money.....		795.79
		$3,000.00

Police Court.

Appropriation		$3,200.00

EXPENDITURES.

SERVICES.

Harry E. Loveren, police justice	$1,500.00	
Frank C. Livingston, associate justice	300.00	
John C. Bickford, clerk	600.00	
		$2,400.00

SUNDRIES.

John B. Clarke Co., printing and binding	$16.50	
M. J. Healy, paid witness fees	324.43	
C. A. Hoitt Co., 1 bookcase	4.75	
L. T. Mead, books	2.50	
New England Telephone & Telegraph Co., use of telephone	42.00	
E. A. Stratton Co., printing dockets	99.00	
Temple & Farrington Co., stationery	1.15	
J. Arthur Williams, printing	15.25	
		$505.58
Total expenditures		$2,905.58
Transferred to unappropriated money		294.42
		$3,200.00

Repairs of Public Buildings.

Appropriation	$22,350.00	
Appropriation by resolution, December 17	750.00	
Received for labor	6.03	
		$23,106.03

EXPENDITURES.

LABOR.

January	$559.73
February	548.01
March	572.80
April	634.93
May	584.98
June	579.74
July	937.76
August	1,352.95
September	1,196.24

October	$839.80	
November	543.05	
December	461.56	
		$8,811.55

SUNDRIES.

C. W. Abbott, springs and hinges	$46.05
American Locomotive Co., castings, etc	165.96
Amoskeag Manufacturing Co., castings and repairs	91.44
C. A. Bailey, curbing	38.95
Barton Company, shades and cotton	8.82
Beauregard & Brady, repairing wheel	6.00
Philip Belanger, cartage	2.00
Bisson & Jodoin, material and labor	305.45
A. J. Blanchet, cartage	3.80
Boston & Maine Railroad, freight	6.40
T. J. Briggs, material and repairs	47.95
Brodie Electric & Auto Co., first payment on 1 Indiana truck, and supplies	1,058.25
Arthur S. Brown, cement and lime	19.33
E. M. Bryant & Co., zincs and wire	4.70
Philip Carey Co., wool felt, tar-lined, and special cement	29.35
O. Carignan, teaming tools	1.50
Chamberlin Metal Weather Strip Co., weather-stripping windows and doors	747.50
Champagne & Charnley, lumber and labor	20.10
J. E. Charnley, plastering and patching	38.90
Concord Foundry & Machine Co., castings	9.50
James A. Colby, cleansing cess-pools	57.00
Charles Connor, truckage	228.26
Connor Brothers, plumbing material and labor	28.25
F. D. Cook Lumber Co., lumber	565.88
Fred Cormier, teaming lumber	.75
D. F. Cronin, putting rope in flag pole	3.00
Joel S. Daniels, paper, paste, pails	12.92
Derryfield Company, lumber, etc	97.54
S. P. Dodge Co., blacksmithing and repairs	75.90
Drew Machinery Agency, material and labor	9.85
Fred Eaton, lathing	10.13
Farrell Brothers, electric supplies and repairs	694.92
H. S. Foster, automobile license and teaming	11.50
A. L. Franks & Co., electric supplies and labor	39.43

J. D. French, clay and use of team	$124.50
W. J. Freeman, use of team	3.00
D. J. Gallagher, cartage	2.00
L. M. George, blacksmithing	51.25
Jan Glayrz, teaming	.50
Ralph E. Hall, refitting weather strips to new sashes	15.42
G. H. Hammond, 1 45-foot ladder	45.00
Peter Harris & Son, making keys, etc	20.35
Robert J. Hayes, liability insurance premium	188.00
Head & Dowst Co., wire guys and shackles	9.00
James W. Hill Co., cotton	4.00
A. H. Hill, teaming	.75
J. Hodge, lumber	812.67
C. A. Hoitt Co., paper, shades, etc	106.05
E. H. Holmes, truckage	99.22
Hubbard Sash & Blind Factory, lumber	27.85
Scott C. Jones, masonwork	6.68
C. Johnson, granite sills	15.90
L. E. Knott Apparatus Co., drinking fountain	25.46
T. F. Landregan, boiler tubes and labor	167.60
H. J. Lawson, glass, solder and labor	21.02
John E. Logan, repairing roof and furnace	14.40
Manchester Cement Block & Concrete Co., new walks and repairs	383.14
Manchester Hardware Co., hardware	1.55
Manchester Plating Co., fittings and brackets	7.50
Manchester Street Railway Co., car tickets	97.50
Manchester Supply Co., plumbing supplies, etc.	715.43
Manchester Traction, Light & Power Co., 1 motor	55.00
Manchester Traction, Light & Power Co., setting flag poles	21.42
J. B. McCrillis & Son, 1 floor dog and rods	6.75
MacDonald Brothers, repairing furnace	4.10
C. F. McDonald, plumbing supplies	51.65
Martin McHugh, brick, lime, cement, cartage	2.37
W. H. McQuesten, cleaning vaults	1.00
Gustav Mehlhorn, use of boat	4.00
J. H. Mendell Co., lumber, cement, gravel	515.73
John F. Moore, lime	.75
John Muir, lumber	570.61
G. M. Morse, repairs and grading; cleaning vault	18.50

National Woodworking Machinery Co., material an drepairing pumps	$100.64	
F. L. Noyes, roofing material and labor	286.10	
New England Telephone & Telegraph Co., use of telephone	33.90	
G. A. Paige, repairing window	2.25	
Henry W. Parker, lime	1.10	
People's Gas Light Co., gas	18.76	
A. L. Perry, masonwork	100.50	
Fred L. Peaslee, cleaning vault	1.00	
Pigeon-Fraser Hollow Spar Co., 2 flag poles	200.00	
Pike & Heald Co., plumbing, steamfitting, etc.	424.54	
Pike & Heald Co., on account, contract for heating Pearl street schoolhouse	750.00	
Harry A. Piper, labor	124.75	
William Platts, fixing rope on flag pole	5.00	
Platts Brothers, 1 stove, pipe, and board	6.60	
C. O. Polson, painting	413.00	
James Ried, moving and setting boiler	25.00	
Robie Consolidated Concrete Co., concrete	132.20	
J. A. Rogers, installing metal ceilings	209.04	
Roy & Gadbois,use of automobile	20.00	
Sanborn Carriage Co., 1 furnace shaker	1.50	
Edward Sargent, repairing locks	1.15	
John A. Sheehan, insurance premium	132.00	
Smith Box & Lumber Co., sawdust	4.05	
E. L. Smith Co., plumbing material and labor	101.72	
Smith-Ramsey Automobile Co., gasoline	3.75	
John Steinmetz & Son, door holders	19.85	
John H. Stevens, plumbing and steamfitting	285.52	
Harry Specter, cartage	1.00	
John B. Varick Co., hardware supplies	1,678.19	
Water Commissioners, use of water	18.00	
Gustaf Wenzel, steel and labor	1.00	
L. B. Wilson, erecting steel ceilings	157.00	
West Side Lumber Co., lumber	143.79	
C. L. Wolf, labor and stock	1.75	
Young Brothers, ladders	16.50	
		$14,126.05
Total expenditures		$22,937.60
Transferred to unappropriated money		168.43
		$23,106.03

Land for Parker School.

Appropriation by resolution		$2,000.00

EXPENDITURES.

Fred R. Stark, agent for Lizzie D. Barker, land on South Main street, 11,905 square feet		$2,000.00

New Schoolhouses.

Balance from last year unexpended	$37,244.13	
Transferred from unappropriated money	924.31	
		$38,168.44

EXPENDITURES.

BROWN SCHOOLHOUSE.

ARCHITECT.

C. R. Whitcher, plans and specifications		$634.09

CONTRACT.

J. H. Mendell Co., building	$13,619.68	
J. H. Mendell Co., one half extra on furniture, freight and teaming	170.10	
T. Raiche, plumbing	4,284.59	
		$18,074.37

SUNDRIES.

Robie Consolidated Concrete Co., granolithic sidewalk		$302.90

MAYNARD SCHOOLHOUSE.

ARCHITECT.

C. R. Whitcher, plans and specifications		$608.76

CONTRACT.

J. H. Mendell Co., building	$13,010.38	
J. H. Mendell Co., one half extra on furniture, freight and teaming	170.10	
J. H. Mendell Co., concrete for foundation	121.88	
T. Raiche, plumbing	4,234.59	
		$17,536.95

SUNDRIES.

Kilham & Hopkins, inspecting schoolhouse and expenses	$32.50	
Robie Consolidated Concrete Co., granolithic sidewalk	978.87	
		$1,011.37
Total expenditures		$38,168.44

Subway Comfort, Merrimack Square.

Balance from last year unexpended	$7,215.34	
Appropriation	2,500.00	
		$9,715.34

EXPENDITURES.

LABOR.

G. B. Little	$3.84	
John Pronk	4.56	
Walter Seaward	2.56	
Thomas Smith	4.20	
		$15.16

CONTRACT.

The Fenton-Charnley Building Co., building	$2,783.20	
John H. Stevens, plumbing	4,111.00	
		$6,894.20

SUNDRIES.

Amoskeag Manufacturing Co., use of concrete mixer	$24.00	
Thomas Blakely, tent loaned city and totally destroyed	80.00	
O. G. Bloomey, truckage	1.50	
J. E. Charnley, cement walks	525.00	
E. H. Holmes, cartage	3.75	
J. H. Mendell Co., storm coverings for doorways	332.00	
John R. Willis & Co., coal	8.00	
		$974.25

MAINTENANCE.

L. B. Bodwell, coal	$80.70	
Nellie Callahan, caretaker	200.00	
Daniels-Cornell Co., soap	7.50	
Alderic Derome, caretaker	323.31	

Farrell Brothers, lamps, brackets, labor.....	$42.79	
L. M. Folsom, gauze.....	2.00	
Marion S. Goings, caretaker.....	200.00	
E. H. Holmes, freight and cartage.....	2.25	
C. A. Hoitt Co., chairs and tables.....	21.00	
Curtis Joyal, caretaker.....	269.92	
Manchester & Concord Express Co. charges	.40	
Manchester Tea Co., soap powder.....	2.10	
Manchester Traction, Light & Power Co., electricity	66.20	
J. J. Moreau & Sons, cuspidors.....	9.50	
People's Gas Light Co., gas.....	25.96	
Pike & Heald Co., 1 plunger.....	.75	
D. M. Poore Coal Co., wood.....	2.73	
Timothy Sullivan, caretaker.....	252.66	
John B. Varick Co., paper, soap, brushes, brooms	203.91	
Water Commissioners, use of water.....	68.60	
West Disinfectant Co., disinfectant.....	10.00	
		$1,792.28
Total expenditures.....		$9,675.89
Transferred to unappropriated money.....		39.45
		$9,715.34

West Manchester Engine House.

Appropriation	$16,000.00	
Appropriation by resolution, August 16.....	6,000.00	
Appropriation by resolution, September 16..	3,000.00	
		$25,000.00

Expenditures.

LAND.

N. H. Improvement Co., 10,000 square feet of land.....	$500.00

ARCHITECT.

William M. Butterfield Co., on account of plans.....	$370.00
Total expenditures.....	$870.00
Transferred to new account.....	24,130.00
	$25,000.00

New Fire-Alarm and Building.

Appropriation from sale of bonds		$101,885.00

EXPENDITURES.

SUNDRIES.

Amoskeag Manufacturing Co., castings	$33.20	
Charles P. Connor, plumbing	38.00	
F. S. Hardy & Co., wire and supplies	1,311.39	
J. Hodge, cross arms	354.50	
Manchester Machine Works, labor on boxes	31.91	
J. H. Mendell Co., three payments on contract for building	22,178.00	
J. H. Mendell Co., extra labor and material	16.11	
John B. Varick Co., paint	15.60	
Western Electric Co., cable hangers	45.21	
C. R. Whitcher, plans and specifications	990.66	
		$25,014.58
Total expenditures		$25,014.58
Transferred to new account		76,870.42
		$101,885.00

Care of City Clocks.

Appropriation	$200.00

EXPENDITURES.

Transferred to unappropriated money	$200.00

Water-Works.

Balance from last year unexpended	$73,474.45	
Cash received for water rents	146,591.29	
		$220,065.74

EXPENDITURES.

LABOR.

January	$4,160.08
February	2,671.51
March	2,579.47
April	3,112.36

May	$3,524.54	
June	4,333.40	
July	6,163.63	
August	5,485.17	
September	5,521.17	
October	6,467.37	
November	5,673.00	
December	5,431.61	
		$55,123.31
Henry Boone	$16.94	
C. A. Childs	95.00	
Ira Dickey	21.00	
G. C. Gale	145.13	
E. E. Hoyt	439.52	
Elmer Hoyt	1,011.16	
Anton Knudson	179.73	
		$1,908.48

SUPERINTENDENT AND WATER COMMISSIONERS.

C. K. Walker, superintendent	$600.00	
James H. Mendell, assistant superintendent	500.00	
James H. Mendell, superintendent	1,874.97	
Walter G. Africa, 8 meetings of board	40.00	
William Corey estate, 9 meetings of board	45.00	
Perry H. Dow, 19 meetings of board	95.00	
Charles M. Floyd, 17 meetings of board	85.00	
Edgar J. Knowlton, 21 meetings of board	105.00	
Edgar J. Knowlton, salary as clerk of board	100.00	
Charles H. Manning, 32 meetings of board	160.00	
Robert E. McKean, 20 meetings of board	100.00	
		$3,704.97

OFFICE SUPPLIES AND EXPENSES.

Burroughs Adding Machine Co., 1 machine	$269.50
E. H. Chadbourne, P. M., envelopes	63.36
George D. Fitts, stationery, etc	91.90
W. P. Goodman, stationery	8.13
C. A. Hoitt Co., furniture	416.50
Kee Lox Manufacturing Co., typewriter ribbons	6.50
Library Bureau, card cabinets and supplies	398.26
Manchester Coal & Ice Co., ice	6.50
A. E. Martell Co., indexes, binders, report sheets	161.99
J. H. Mendell, paid for express, stamps, lights, etc	232.06

Office Toilet Supply Co., toilet service.....	$10.00	
Oliver Typewriter Co., typewriters.....	160.43	
Rapid Mailing Bureau, paper for adding machine	1.50	
Sampson, Murdock Co., 1 directory.....	3.00	
Temple & Farrington Co., blank books.....	53.50	
U. S. postoffice, stamps.....	12.00	
Western Union Telegraph Co., telegram....	1.00	
		$1,896.13

PRINTING AND ADVERTISING.

John B. Clarke Co., printing.....	$291.75	
John B. Clarke Co., advertising.....	6.40	
Manchester Union Co., advertising.....	1.50	
Union Publishing Co., advertising.....	2.10	
		$301.75

FUEL, GAS, TEAMS, TELEPHONE.

L. B. Annis, use of teams.....	$90.00	
Ira W. Dickey, sawing wood.....	28.00	
W. E. Dunbar & Sons, coal.....	255.00	
G. C. Gale, hauling coal.....	118.49	
William A. Jepson, coal.....	797.42	
B. J. Mack, coal.....	1.20	
Manchester Street Railway, tickets.....	165.00	
Manchester Traction, Light & Power Co., car tickets.....	15.00	
J. H. Mendell, tickets to Boston, Mass.....	13.25	
Moore & Preston Coal Co., coal.....	.66	
New England Telephone & Telegraph Co., service	134.22	
People's Gas Light Co., gas.....	1.32	
Louis Vogel, use of teams.....	85.50	
		$1,705.06

BLACKSMITHING, EXPRESS, FREIGHT, HARDWARE.

C. H. Allyson, blacksmithing.....	$926.82	
American Express Co., charges.....	29.60	
Boston & Maine Railroad, freight, etc.....	4,441.24	
Manchester & Concord Express Co., charges	1.23	
Manchester Hardware Co., hardware.....	283.62	
John B. Varick Co., hardware and tools.....	2,186.24	
		$7,868.75

LEGAL SERVICES.

Burnham, Brown, Jones & Warren.....	$59.25

DAMAGES.

F. G. Eaton, horse frightened by drill.....	$25.00	
Conrad Fiege, bursting of pipe.....	25.00	
A. B. Gandes, vegetables damaged by bursting of pipe.....	39.67	
Henry Volkman, bursting of pipe.....	15.00	
		$104.67

LAND AND BUILDINGS.

John Caron, land and buildings.....	$400.00	
Alfred D. Emery, land and buildings.....	10,000.00	
Harrison Preston, land.....	5,000.00	
W. H. H. Perkins, land.....	650.00	
		$16,050.00

SUPPLIES.

Adams Brothers, salt, lime, cement.....	$31.58
American Locomotive Co., castings, etc.....	658.05
Amoskeag Manufacturing Co., white slasher	47.08
Amoskeag Manufacturing Co., material and labor on penstock.....	4,853.34
C. A. Bailey, 8 window stools.....	15.65
Bachelder-Worcester Co., posts, boards, rails	504.63
C. L. Berger & Sons, engineer's and surveyor's transits, etc.....	243.85
Bisson & Jodoin, iron pails.....	18.00
Harold L. Bond Co., supplies.....	265.82
Builders Iron Foundry, supplies.....	1,664.33
Cornplanter Refining Co., gasoline.....	94.80
Chapman Valve Manufacturing Co., valves, etc.	187.18
Chadwick-Boston Lead Co., pipe.....	41.62
Concord Belting Co., guide pipe.....	4.32
Derryfield Company, lumber.....	271.84
G. W. Dodge Shoe Co., rubber boots.....	265.50
Dyar Supply Co., 2 lead furnaces complete..	52.00
General Electric Co., carbon brushes.....	3.95
Granite State Rubber Co., gaskets and packing	5.26
Gulf Refining Co., gasoline, etc.....	114.80
Hart Packing Co., condenser valves.....	23.81
Hays Manufacturing Co., supplies.....	779.76
J. Hodge, lumber, etc.....	293.94
Holbrook, Cabot & Rollins Corp., dynamite..	2.55
George T. Hoyt Co., waterproof wagon cover	6.30
Hubbard Sash & Blind Factory, plugs.....	17.50

Ingersoll-Sergeant Drill Co., supplies.....	$46.70
Independent Oil Co., gasoline and kerosene	135.58
Lackawanna Steel Co., steel piling.....	692.82
H. J. Lawson, material and labor.....	294.24
Lead-Lined Iron Pipe Co., pipe.....	3,220.33
Ludlow Valve Manufacturing Co., gates and valves	151.20
Manchester Auto Garage, 1 motor truck....	4,225.00
Manchester Auto Garage, supplies.....	657.47
Manchester Independent Oil Co., gasoline...	94.80
Manchester Real Estate & Manufacturing Co., brick.....	245.00
Manchester Supply Co., pipe.....	11.40
Manchester Traction, Light & Power Co., electric lights and power, thawing pipes, connecting batteries, etc.....	7,223.73
A. J. McKelvie, boxes.....	5.00
W. H. McElwain Co., gasoline.....	.60
John Muir, lumber.....	303.70
National Meter Co., meters and packing....	1,236.40
Narragansett Machine Co., lockers.....	83.00
Neptune Meter Co., meters, etc.....	598,50
Norwood Engineering Co., hydrants and supplies	1,140.36
F. F. Osgood, packing and washers.....	43.15
Henry W. Parker, cement.....	849.65
F. L. Peaslee, fertilizer.....	7.50
Peerless Motor Car Co., supplies.....	1.30
Perry Oil Co., oil.....	162.18
Pittsburg Meter Co., meters.....	86.00
Pittsburgh Plate Glass Co., plate glass.....	39.66
Pike & Heald Co., pipe, valves, gasoline.....	23.40
Pratt & Cady Co., goose necks, etc.....	182.73
Red Arrow Garage, gasoline.....	2.55
Richards & Co., lead pipe.....	1,998.60
Rodefield Manufacturing Co., pipe cutter wheels	3.84
Eugene A. Simpson, channels, bolts and guards	134.98
A. P. Smith Manufacturing Co., tapping machine, and supplies.....	580.00
Smith Box & Lumber Co., boxes.....	132.30
Smith & Johnson, gasoline.....	6.88
Star Stamp Co., stamps.....	4.50
Standard Cast Iron Pipe & Foundry Co., pipe	648.19
Standard Oil Co., gasoline and tanks.....	312.10

C. D. Steele, soap	$4.05	
John H. Stevens, supplies	390.14	
Sullivan Machinery Co., tools, etc	1,684.12	
Thomson Meter Co., meters and packing	581.22	
G. E. Trudell & Co., supplies	89.25	
Texas Company, gasoline	4.20	
Union Water Meter Co., supplies	748.23	
U. S. Cast Iron Pipe & Foundry Co., pipe	13,340.42	
West Side Lumber Co., lumber	326.25	
Oliver Whyte Co., wickets	30.00	
Henry R. Worthington, 1 pump	84.50	
Woodstock Lumber Co., lumber	284.65	
		$53,619.83

REPAIRS, ETC.

Amoskeag Manufacturing Co., material and labor	$345.22	
C. A. Bailey, drilling holes at garage	5.00	
Bankers Lock Inspection Co., cleaning and adjusting safe lock	9.85	
Bisson & Jodoin, repairs, etc	30.86	
Board of Public Works, material and labor on street, cleaning and painting water pipes	136.43	
E. M. Bryant & Co., labor and material	97.36	
J. E. Charnley, masonwork	17.10	
G. B. Cressey, paint and labor	424.21	
Joel S. Daniels, stain and cans	11.95	
Derryfield Company, brick, cement, lumber, labor	102.99	
S. P. Dodge Co., repairs	77.75	
A. L. Franks & Co., electric supplies and labor	159.34	
F. L. Follansbee & Son, moving shed	160.00	
G. C. Gale, unloading brick and coal	120.06	
Granite State Rubber Co., repairing boots	3.00	
Hersey Manufacturing Co., repairing meters	9.45	
Manchester Machine Works, repairs	36.32	
J. H. Mendell Co., material and labor	1,930.62	
National Meter Co., repairing meters	356.68	
Neptune Meter Co., repairing meters	71.90	
F. L. Noyes, slating and gravel roofing	235.79	
Pike & Heald Co., steam fitting repairs	1.87	
Pittsburgh Meter Co., repairing meters	5.90	
J. A. Rogers, material and labor	91.00	
Robie Consolidated Concrete Co., concrete, sand and repairs	567.17	

C. R. Sawyer, repairing magneto	$2.95	
C. R. Sawyer Co., repairing magneto and compressor	6.90	
Edward Sargent, making keys	.40	
Smith & Johnson, material and labor	70.34	
Thomson Meter Co., repairing meters	107.94	
E. F. Tuson, repairing lock and making key	1.25	
Union Water Meter Co., repairing meters	169.50	
Henry R. Worthington, repairing meters	24.25	
		$5,391.35

SUNDRIES.

Town of Auburn, taxes	$620.28	
Amoskeag Manufacturing Co., moving boat	14.19	
Eugene Bailey, expenses learning to operate motor truck	25.35	
W. G. Berry, insurance premium	89.00	
John Connolly, one half allowance for uniforms	50.00	
A. D. Emery, locating land, and division lines	21.30	
J. E. Holmes, dinners, tour of inspection	116.85	
Sarah Pennock, rent of house	100.00	
Harrison Preston, lease of land, 1912	75.00	
J. F. Robinson, M. D., professional services	5.50	
State of New Hampshire, registration of truck and chauffeur license	15.00	
Sinking Fund Commissioners, payment of water bonds	5,000.00	
Sinking Fund Commissioners, hydrant rentals	23,075.00	
G. A. Vermille Insurance Agency, insurance premium	50.00	
J. H. Winters, suppers for 14 men	3.50	
F. P. Wiggin, labor at lake	17.50	
		$29,278.47
Total expenditures		$177,012.02
Transferred to interest account		23,577.50
Transferred to new account		19,476.22
		$220,065.74

Pine Grove Cemetery.

Appropriation	$19,500.00

EXPENDITURES.

LABOR.

January	$650.99	
February	554.49	
March	561.61	
April	858.72	
May	1,254.51	
June	1,280.47	
July	1,456.75	
August	1,188.62	
September	1,049.96	
October	1,351.73	
November	1,107.30	
December	751.41	
		$12,066.56

FUEL, INSURANCE, TELEPHONE, LIGHTS, WATER.

Everett & Bunton, insurance premium	$37.00	
Manchester Traction, Light & Power Co., lights in chapel	10.00	
New England Telephone & Telegraph Co., service	27.05	
Union Coal Co., coal	282.64	
Water Commissioners, use of water	530.90	
		$887.59

PRINTING AND STATIONERY.

John B. Clarke Co., printing	$130.30	
E. H. Chadbourne, P. M., stamped envelopes	10.62	
W. P. Goodman, books and stationery	8.55	
Novelty Company, balance on exchange of typewriters	75.00	
J. Arthur Williams, printing	5.75	
		$230.22

TEAM EXPENSES.

Adams Brothers, grain and hay	$78.28	
Arthur S. Brown, grain	389.76	
S. P. Dodge Co., repairs	19.45	
J. H. Erskine, paid veterinary services	4.00	
Frank Hughes, repairing harness	5.40	
Alva Silva, harness repairs	5.30	
J. O. & L. P. Tremblay, horseshoeing	29.25	
L. P. Tremblay, horseshoeing	11.00	
		$542.44

REPAIRS AND IMPROVEMENTS.

American Forestry Co., trees and shrubs....	$54.55	
A. B. Black Road Machinery Co., 1 motor roller	2,907.19	
Boston & Maine Railroad, freight.....	102.04	
Board of Public Works, sewer pipe.....	156.50	
Arthur S. Brown, cement and lime.....	11.60	
E. M. Bryant & Co., 1 electric fan.....	19.25	
S. P. Dodge Co., sharpening drills, etc.....	12.33	
W. E. Dunbar and Sons, labor and teams...	40.00	
Charles R. Fish & Co., plants.....	9.00	
J. D. French, teams and labor.....	100.00	
Farrell Brothers, 1 tap and socket.....	1.10	
Glen Brothers, shrubs.....	39.55	
A. H. Hews & Co., pots.....	8.00	
Peter Henderson & Co., lawn seeder and sod lifter.....	16.25	
A. G. Hood, 4 firs.....	5.00	
A. P. Horne & Co., trees, shrubs, plants.....	79.20	
C. A. Hoitt Co., paper.....	5.53	
J. Hodge, grade stakes and lumber.....	34.73	
George E. Lane, castings, making digger....	7.01	
Manchester Hardware Co., lawn sprinkler...	.50	
Manchester Supply Co., pipe, etc.....	68.15	
Manchester Traction, Light & Power Co., fixtures and wiring superintendent's house, stable, and greenhouses.....	132.55	
Thomas Meehan & Sons, plants.....	12.00	
H. W. Parker, cement.....	30.40	
A. L. Perry, masonwork.....	87.43	
Pike & Heald Co., pipe and labor.....	43.35	
Edgar W. Poore, wall paper.....	5.66	
C. O. Polson, painting cottages.....	402.07	
Elmer E. Reed, repairing ceilings.....	12.00	
Reade Manufacturing Co., "Herbicide" and "Electric Worm Eradicator".....	58.25	
Sanborn Carriage Co., repairing tent.....	3.00	
The Solway Process Co., calcium chloride...	26.25	
James Thompson, loam.....	608.00	
C. P. Still, stone work.....	83.43	
John B. Varick Co., tools and hardware.....	315.89	
A. A. Warren, gasoline.....	45.45	
West Side Lumber Co., lumber and labor...	53.92	
		$5,597.13

SUNDRIES.

J. H. Erskine, fare and expenses to New York, inspecting road roller	$17.50	
J. H. Erskine, expenses attending convention of cemetery superintendents at Milwaukee	92.40	
Edwin F. Jones, report of sub-trustees	25.00	
		$134.90
Total expenditures		$19,458.84
Transferred to unappropriated money		41.16
		$19,500.00

Valley Cemetery.

Appropriation	$5,000.00

EXPENDITURES.

LABOR.

January	$257.00	
February	193.00	
March	186.00	
April	307.75	
May	361.00	
June	394.50	
July	449.78	
August	293.25	
September	309.87	
October	396.25	
November	384.50	
December	319.00	
		$3,851.90

FUEL, STATIONERY, TELEPHONE, WATER.

B. J. Mack, coal	$52.50	
New England Telephone & Telegraph Co., service	24.54	
Temple & Farrington Co., books	9.50	
Water Commissioners, use of water	87.90	
		$174.44

PLANTS, LOAM, ETC.

Bridget Clune, dressing	$18.00	
W. E. Dunbar & Sons, loam, turf, etc	148.75	
C. R. Fish & Co., trees and shrubs	60.00	
A. G. Hood, evergreen trees	9.00	
A. P. Horne & Co., plants and shrubs	100.00	
J. W. Mudgett, loam	26.25	
Pine Grove Cemetery, plants	70.00	
		$432.00

TEAM EXPENSES.

H. J. Dexter, horseshoeing	$12.50	
Golden & Darrah, veterinary services	25.25	
F. H. Masse & Co., grain	97.88	
J. B. McCrillis & Son, repairing wagon	25.10	
Mrs. J. C. Smith, barn rent	25.00	
Joseph Vogel & Co., harness repairs and supplies	17.45	
		$203.18

REPAIRS AND IMPROVEMENTS.

C. H. Allyson, blacksmithing	$10.95	
Joel S. Daniels, paint	2.80	
J. E. Hartshorn, plumbing, etc	23.80	
H. J. Lawson, repairing gate lock	1.35	
J. H. Mendell Co., lumber and labor	42.47	
H. W. Parker, cement	61.40	
E. C. Smith, 2 rugs	5.00	
John B. Varick Co., tools and hardware	86.46	
		$234.23

SUNDRIES.

H. H. Clement, typewriting	$2.00	
E. C. Smith, expenses attending convention of cemetery superintendents at Milwaukee	100.00	
		$102.00
Total expenditures		$4,997.75
Transferred to unappropriated money		2.25
		$5,000.00

Amoskeag Cemetery.

Appropriation	$500.00

EXPENDITURES.

LABOR.

John Crabtree	$8.75	
George C. Harwood	236.00	
Denis Mahoney	12.00	
Peter Sefton	17.50	
		$274.25

SUNDRIES.

C. Johnson, hanging gate and fixing stone	$7.00	
John Francis, plants	5.00	
Hubbard Sash & Blind Factory, plank	4.50	
Manchester Hardware Co., shovels and mower	9.40	
W. M. Ordway, lowering straps	2.50	
Pike & Heald Co., hose bibbs	1.28	
J. W. Richards, use of teams	8.00	
John B. Varick Co., lawn mowers, hose, tools	36.30	
Water Commissioners, use of water	12.00	
		$85.98
Total expenditures		$360.23
Transferred to unappropriated money		139.77
		$500.00

Merrill Cemetery.

Appropriation	$100.00

EXPENDITURES.

LABOR.

May	$13.50	
July	12.00	
September	8.25	
December	25.37	
		$59.12

SUNDRIES.

Manchester Hardware Co., shovels and pruners	$13.25
Total expenditures	$72.37
Transferred to unappropriated money	27.63
	$100.00

Printing and Advertising.

Appropriation	$500.00	
Transferred from unappropriated money	208.40	
		$708.40

EXPENDITURES.

SUNDRIES.

John B. Clarke Co., printing	$673.10	
John B. Clarke Co., advertising	8.50	
L'Avenir National, advertising	4.00	
Manchester Union Co., advertising	12.30	
Ruemely Press, printing	10.50	
		$708.40
Total expenditures		$708.40

Books and Stationery.

Appropriation	$50.00

EXPENDITURES.

SUNDRIES.

George D. Fitts, cabinet and cards	$4.25	
W. P. Goodman, directories and stationery	9.00	
L'Avenir National, letter heads	9.00	
Charles H. Martel, stamped envelopes	12.82	
Star Stamp Co., 1 stamp	.15	
Temple & Farrington Co., blank book	1.25	
		$36.47
Total expenditures		$36.47
Transferred to unappropriated money		13.53
		$50.00

Furniture and Supplies.

Appropriation	$2,500.00

Expenditures.

SUPPLIES.

E. M. Bryant & Co., mantle and chimney....	$0.45	
Milton Bradley Co., paper and supplies.....	111.95	
E. H. Chadbourne, P. M., envelopes and postals	25.00	
George D. Fitts, envelopes.....	1.75	
James W. Hill Co., flags.....	27.45	
Ideal Stamp Co., stamps.....	3.05	
Manchester Dry Goods Co., gingham.....	4.42	
Remington Typewriter Co., paper.....	1.90	
		$175.97

FURNITURE, ETC.

Carl W. Anderson & Co., clocks.....	$30.00	
American Seating Co., desks, chairs, inkwells	368.59	
Barton Company, shades, rods, cords.....	49.16	
Enterprise Rubber Co., mats.....	15.00	
George D. Fitts, filing cabinets and supplies	468.18	
C. A. Hoitt Co., desks, chairs, tables.....	167.95	
Kenney Bros. & Wolkins, mats and inkwells	46.30	
Manchester Traction, Light & Power Co., electric fan and lamps.....	19.05	
People's Gas Light Co., gas range, mantles, etc.	30.50	
Smith Bros. Piano Co., 1 piano.....	210.00	
Remington Typewriter Co., typewriters.....	145.00	
C. A. Trefethen, clocks.....	31.75	
John B. Varick Co., venetian blinds, etc.....	25.95	
		$1,607.43

SUNDRIES.

Farrell Brothers, electric material and labor	$7.53	
A. L. Franks & Co., lamps, mantles, labor...	115.84	
L. M. Folsom, ribbon.....	32.50	
James W. Hill Co., repairing flags.....	2.00	
C. A. Hoitt Co., use of chairs.....	44.30	
J. Hodge, lumber.....	29.68	
J. G. Jones, cartage.....	2.75	
Pike & Heald Co., repairing grate.....	1.29	
C. W. Powell, lumber and labor.....	64.51	
Harry A. Piper, lumber and labor.....	32.01	
James A. Scully, use of tables.....	24.00	
E. F. Tuson, sharpening scissors.....	1.10	
		$357.51
Total expenditures.....		$2,140.91
Transferred to unappropriated money.....		359.09
		$2,500.00

Fuel.

Appropriation		$13,000.00

EXPENDITURES.

COAL.

L. B. Bodwell	$7,072.80	
Moore & Preston Coal Co	679.20	
John R. Willis & Co	3,788.26	
		$11,540.26

WOOD.

W. E. Dunbar & Sons	$221.00	
Maxwell Ice Co	512.75	
D. M. Poore Coal Co	269.55	
		$1,003.30

SUNDRIES.

J. Newell Brown, weighing coal	$67.50	
C. B. Clarkson, weighing coal	120.00	
New England Telephone & Telegraph Co., service	5.25	
F. B. Parsons, barrels	1.00	
		$193.75
Total expenditures		$12,737.31
Transferred from unappropriated money		262.69
		$13,000.00

Contingent Expenses.

Appropriation	$5,000.00	
Transferred from unappropriated money	485.40	
		$5,485.40

EXPENDITURES.

ELECTRIC LIGHTS, GAS, WATER.

Manchester Traction, Light & Power Co., electric lights	$929.14	
People's Gas Light Co., gas	427.57	
Water Commissioners, use of water	954.15	
		$2,310.86

CARRYING WATER.

Robert R. Marshall	$12.80	
G. M. Morse	14.00	
		$26.80

USE OF TEAMS.

Nellie K. Bates	$118.20	
C. W. Bickford	93.00	
F. W. Blood	1.60	
F. W. Blood Roofing Co	8.80	
Edna A. Blood	33.75	
Maude E. Brown	57.00	
Agnes C. Bruton	40.00	
C. W. Davis	150.00	
Emma J. Ela	111.00	
J. D. French	24.50	
George W. Flint	2.00	
Charles I. Hardy	448.80	
Manchester Street Railway	172.50	
Marion F. Partridge	69.00	
Mrs. Harry A. Perkins	7.00	
Mrs. C. F. Perkins	28.00	
Phoebe C. Riley	69.00	
Frank E. Willey	56.25	
Harry J. Woods	75.00	
		$1,565.40

SUNDRIES.

C. W. Bickford, stamps, postals, and expenses securing teachers	$23.30
Bell Ribbon & Carbon Co., carbon paper	1.25
H. Desfosses & Co., sponges, soapine, labor	52.50
Alexander J. Demers, helping truant officer	165.75
Joel S. Daniels, color and labor	5.77
E. H. Holmes, freight and cartage	27.21
C. A. Hoitt Co., cards	3.06
J. H. Hesser, engrossing diplomas	44.40
Gaudias Hebert, helping truant officer	14.00
Gallagher Amusement Co., use of Park theatre	100.00
W. P. Goodman, stationery	3.45
Amelia Graupner, extra labor	25.00
Ideal Stamp Co., stamps	.40
A. A. Jenkins, tuning pianos	20.75
J. G. Jones, freight and cartage	43.01
G. H. Libby, postage, express, telephone	17.87
Manchester City Missionary Society, rent of building	402.50
Manchester Dry Goods Co., gingham	4.42
Manchester Boys' Club, caning chairs	1.60
A. J. McKelvie, material and labor	21.58

Amelia McWeeney, rent of room for kindergarten	$40.00	
Mrs. A. McWeeney, rent of room for kindergarten	30.00	
New England Telephone & Telegraph Co., service	22.37	
People's Gas Light Co., 1 range	24.00	
H. A. Piper, labor	7.05	
Piper & McIntire, use of piano	6.00	
St. Marie Realty Co., rent of hall	210.00	
James A. Scully, use of tables	36.00	
Smith Bros. Piano Co., rent of pianos	90.00	
Thomas Smith, putting down seats	.76	
C. H. Stebbins, making table	25.94	
Victor E. Stevens, engrossing diplomas	32.40	
Travelers Insurance Co., insurance premium	80.00	
		$1,582.34
Total expenditures		$5,485.40

Care of Schoolrooms.

Appropriation	$14,000.00

EXPENDITURES.

JANITORS.

John S. Avery	$520.77
Edwin N. Baker	401.52
Marshall N. Badger	270.81
Octave Bergeron	368.30
Joseph H. Buffum	620.80
John Burke	499.72
John Cedar	50.00
Irving W. Corning	41.66
C. D. Emerson	270.81
Sherman L. Flanders	388.90
Urbain Gelinas	470.80
Gedeon Hebert	46.50
Louis Hueber	270.81
Charles F. Jack	920.80
George H. Jack	720.81
Harvey H. Johnson	441.61
W. F. Henderson	520.77
John J. Kelley	229.15
Mrs. F. T. Kelley	26.50
George Lawrence	458.96

Hugh McVicar	$570.81	
Martin McIntire	10.80	
Robert R. Marshall	43.75	
G. M. Morse	75.50	
William H. Newry	620.80	
Fred L. Peaslee	19.50	
Edward A. Powers	520.77	
William J. Powers	570.81	
Squire Priestley	538.67	
O. J. Pyre	50.00	
Philip Rogler	520.77	
Denis Sullivan	410.64	
John I. Thompson	40.50	
William A. Tufts	520.77	
Fred F. Whitten	420.81	
		$12,474.90

SUNDRIES.

Amoskeag Manufacturing Co., soap	$13.00
Boston Iron Works, 1 safety window platform	15.00
Board of Public Works, sand, delivered	4.38
S. A. Felton & Son Co., brushes and dusters	172.75
Flash Chemical Co., mops, racks, disinfectant	19.80
A. L. Franks & Co., lamps	28.00
Gedeon Hebert, cleaning	2.00
W. S. Holt & Son, remnants	25.00
C. F. Jack, incidental expenses	134.55
J. G. Jones, freight and cartage	3.83
Mrs. F. T. Kelley, cleaning	2.50
Frank D. Leighton, flue brush	1.50
Robert R. Marshall, cleaning	2.00
J. B. McCrillis & Son, 1 bar	2.50
W. H. McQuestion, cutting grass	1.50
F. E. Nelson, dustpans and glass ware	8.25
New England Telephone & Telegraph Co., service	16.80
F. F. Osgood, hose	4.50
F. B. Parsons, barrels	7.00
The Palami Products Co., cleansing jelly	3.60
Pike & Heald Co., wire brushes	.60
Robie Consolidated Concrete Co., sand	14.00
Stanley Liquid Soap Co., sweeping compound	19.00
John H. Stevens, brushes, hose, boiler cleaner	23.23

John B. Varick Co., baskets, toilet paper, soap, etc.	$436.62	
West Disinfecting Co., soap and disinfectant	222.50	
		$1,184.41
Total expenditures		$13,659.31
Transferred to unappropriated money		340.69
		$14,000.00

Evening Schools.

Appropriation	$3,000.00

EXPENDITURES.

SALARIES.

Francis Abbott	$47.00
Arthur B. Blaine	49.00
Gertrude A. Batchelder	36.00
Harold C. Caine	92.00
Gertrude Cronin	92.00
Honorie J. Clough	182.00
Dean R. DeMerritt	44.00
John Donnelly	45.00
John B. Donnelly	47.00
Joseph F. Doyle	91.00
Ferdinand Farley	182.00
William F. Hayes	3.00
Carroll S. King	184.00
Margaret G. Linen	91.00
Sarah T. Lyons	74.00
James Mahoney	80.00
Thomas A. McCabe, Jr.	45.00
William G. McCarthy	3.00
Kitty F. McDonald	92.00
Myra V. Moore	91.00
Arthur P. Morrill	94.00
Adelia Murphy	92.00
Lawrence A. O'Connor	38.00
Harry Pillsbury	2.00
Edwin M. Rogers	47.00
Joseph W. Russell	44.00
Carlena A. Savory	51.00
Jessie P. Stevens	81.00
John J. Sullivan	16.00
John W. Sullivan	3.00

Minnie Sullvian	$90.00	
Nora Sullivan	45.00	
Arthur J. Tonery	91.00	
E. B. Willand	109.00	
Genieve B. Wilson	78.00	
Minnie Sullivan	$90.00	
		$2,541.00

SUNDRIES.

John B. Clarke Co., printing cards	$2.50	
Farrell Brothers, mantles and globes	55.15	
W. J. Freeman, use of team	3.00	
George Lawrence, services as janitor	9.50	
Edward Mann, services as janitor	6.50	
Hugh McVicar, services as janitor	47.50	
E. A. Powers, services as janitor	17.50	
		$141.65
Total expenditures		$2,682.65
Transferred to unappropriated money		317.35
		$3,000.00

Evening School.—Mechanical Drawing.

Appropriation	$300.00

EXPENDITURES.

SALARIES.

Henry W. Allen, teacher	$114.00	
John M. Kendall, teacher	114.00	
		$228.00

SUNDRIES.

E. E. Babb & Co., paper	$21.50	
T. H. Castor & Co., drawings	11.00	
Farrell Bros., changing lights	14.19	
C. F. Jack, janitor service	14.50	
		$61.19
Total expenditures		$289.19
Transferred to unappropriated money		10.81
		$300.00

Teachers' Salaries.

Appropriation	$137,000.00

EXPENDITURES.

SALARIES.

January	$13,336.45	
February	13,430.33	
March	13,663.82	
April	10,267.14	
May	13,594.78	
June	13,604.15	
September	10,407.15	
October	14,008.91	
November	14,349.50	
December	12,541.34	
		$129,203.57

SUNDRIES.

Edgar D. Cass, amount deducted from salary	$47.01
Total expenditures	$129,250.58
Transferred to unappropriated money	7,749.42
	$137,000.00

Free Text-Books.

Appropriation	$10,000.00	
Transferred from unappropriated money	1,163.77	
		$11,163.77

EXPENDITURES.

FREE TEXT-BOOKS AND SUPPLIES.

Allyn & Bacon	$144.85
American Book Co.	2,835.97
Amoskeag Manufacturing Co.	51.76
Atkinson, Mentzer & Co.	66.30
Affleck Ruling & Stationery Co.	47.40
D. Appleton & Co.	3.48
The Barton Company	3.95
E. E. Babb & Co.	1,170.69
Bausch & Lomb Optical Co.	167.14
C. C. Birchard & Co.	23.34
The Bobbs-Merrill Co.	6.86
Milton Bradley Co.	254.35
S. Ellen Brown	6.57
E. M. Bryant & Co.	7.20

A. L. Burt Co.	$29.50	
Bureau of University Travel	.90	
T. H. Castor & Co.	19.75	
John B. Clarke Co.	7.00	
Clark Brothers	13.45	
E. R. & W. P. Coburn	1.00	
Dennison Manufacturing Co.	18.75	
Oliver Ditson Co.	6.75	
Eagle Pencil Co.	5.65	
B. F. Elwell Glue Co.	4.20	
George D. Fitts	364.15	
L. M. Folsom	37.15	
Ginn & Co.	2,513.32	
Gregg Publishing Co.	81.00	
W. P. Goodman	2.40	
J. L. Hammett Co.	288.68	
D. C. Heath & Co.	190.20	
James W. Hill Co.	25.15	
Houghton, Mifflin Co.	74.28	
Kenney Bros. & Wolkins	170.24	
W. E. King	15.50	
Little, Brown & Co.	116.50	
C. S. Magoon	8.85	
Manchester Tea Co.	4.80	
Marine Biological Laboratory	6.30	
Mayhew Publishing Co.	1.05	
McKinley Publishing Co.	28.41	
Charles E. Merrill Co.	58.98	
New England Reed Co.	3.77	
Novelty Company	22.50	
The Palmer Co.	29.87	
Harry N. Pratt	20.25	
Remington Typewriter Co.	21.50	
Fleming H. Revell Co.	6.50	
Russell Sage Foundation, Dept. Child Hygiene	2.60	
B. H. Sanborn & Co.	48.34	
Sibley & Co.	7.17	
Nathan Silverman	4.55	
Silver, Burdett & Co.	482.82	
Charles Scribner's Sons	1.40	
A. T. Thompson & Co.	214.00	
John B. Varick Co.	60.33	
Walsh & Cummings	53.43	
J. Arthur Williams	2.80	
F. W. Woolworth & Co.	2.40	
Mrs. J. R. Zmunt	517.20	
		$10,385.20

SUNDRIES.

J. G. Jones, freight and cartage	$117.97	
Fannie L. Sanborn, superintendent's clerk	660.00	
People's Gas Light Co., gas hose	.60	
		$778.57
Total expenditures		$11,163.77

Manual Training.

Appropriation		$750.00

EXPENDITURES.

SUNDRIES.

F. E. Browne, attendance at convention, Cincinnati, Ohio	$54.70	
John B. Clarke Co., printing	15.00	
Eugene Dietzgen Co., drawing paper and instruments	57.49	
B. F. Elwell Glue Co., glue	8.15	
Favor, Ruhl & Co., jupiter wheels, etc	5.19	
F. H. Fernald, lumber	27.75	
Granite State Rubber Co., rubber bands	1.50	
W. P. Goodman, files and clip	4.25	
J. L. Hammett Co., drawing paper	5.15	
J. Hodge, wood	13.02	
C. A. Hoitt Co., stools	45.00	
J. G. Jones, freight and cartage	7.89	
National Woodworking Machinery Co., tools	46.24	
New England Box Co., pine	37.74	
Temple & Farrington Co., book	9.75	
John B. Varick Co., hardware and tools	133.52	
A. J. Wilkinson & Co., sheet copper	6.79	
John M. Woods Co., wood, sundry kinds	78.40	
		$557.53
Total expenditures		$557.53
Transferred to unappropriated money		192.47
		$750.00

Manual Training Equipment.

Appropriation	$500.00	
Transferred from unappropriated money	64.81	
		$564.81

EXPENDITURES.

SUNDRIES.

Colburn Machine Tool Co., saw table.....	$277.81	
Manchester Traction, Light & Power Co., 1 motor.....	117.00	
Oliver Machinery Co., speed lathe.....	170.00	
		$564.81
Total expenditures.....		$564.81

Care of School Clocks.

Appropriation	$350.00

EXPENDITURES.

Charles A. Trefethen.....	$254.20
Total expenditures.....	$254.20
Transferred to unappropriated money.....	95.80
	$350.00

Pianos.

Appropriation	$500.00

EXPENDITURES.

Smith Bros. Piano Co., 4 pianos.....	$500.00

Water for Mosquito Pond.

Balance from last year unexpended.....	$750.00

EXPENDITURES.

Transferred to unappropriated money.....	$750.00

Paupers off Farm.

Appropriation	$20,200.00

EXPENDITURES.

LABOR.

Joseph L. Boudreau, salary as overseer of poor	$1,200.00	
Juliette E. Melancon, services as clerk	600.00	
		$1,800.00

OFFICE SUPPLIES, ETC.

Charles Boisclair, automobile hire	$6.00	
Boston & Maine Railroad, mileage book	20.00	
E. H. Chadbourne, P. M., stamps	30.37	
John B. Clarke Co., printing bills	19.25	
George D. Fitts, numbering machine and stationery	6.10	
D. F. Fradd, carbon paper, etc	2.50	
W. P. Goodman, stationery	12.90	
L'Avenir National, advertising	6.25	
Carl S. Magoon, ribbon coupons	3.00	
Manchester Street Railway, car tickets	92.50	
Manchester Union Co., advertising proposals	11.73	
New England Telephone & Telegraph Co., service	29.20	
Leo Norbert Sign Co., 1 glass sign	2.00	
Novelty Company, new type for machine	.50	
Roy & Gadbois, team hire	35.50	
Ruemely Press, printing	9.75	
James A. Scully, repairing chair	1.75	
Standard Ice Co., ice	3.80	
R. W. Stockbridge, rental of adding machine	30.00	
E. A. Stratton Co., printing	23.50	
Temple & Farrington Co., books and stationery	24.75	
John B. Varick Co., grill and shears	22.00	
John B. Clarke Co., advertising	11.75	
		$405.10

GROCERIES AND PROVISIONS.

Barbeau Brothers	$7.00
Baribeau & Cote	54.00
Paul Bellefeuille	93.00
George Boisvert	56.00
Jean B. Bouchard	8.00
Bourgeois & Co	120.00
Arsene Bournival	174.00
Joseph Bureau	660.90

John Carrier	$180.00
C. H. Clark & Sons	77.00
Dancose Brothers	22.00
N. Daigle	175.98
Joseph M. Demers	110.00
Dionne & Brule	29.40
O. F. Dubois	268.00
Eugene Dubois	447.00
Ducharme Brothers	139.60
Joseph Dumas	374.85
Dumas & Prince	21.50
L. F. Dusseault & Co	306.00
A. J. Gagne	471.20
S. E. Gagnon & Co	48.00
Gaillardet & Rivard	88.00
Gaudette Brothers	301.00
Ernest Gelinas	256.97
Philip Grenier	40.00
James J. Griffin	72.00
Griffin & Duguay	1,278.10
Gorman Brothers	204.90
Joseph B. Haggerty	90.00
Omer H. Hamel	36.00
John Healy	417.95
A. P. Hermsdorf	96.00
Martin Johnson	111.53
R. Hecker	6.18
John A. Kane	192.00
Peter Kennedy	10.00
Kennedy & Sweet	5.00
T. J. Labrecque	72.00
Norbert Lafond	213.81
Lamoureux Brothers	148.00
A. S. LaSalle	60.00
Joseph Leblond	36.00
A. D. Lemay	42.67
J. A. Lindquist	24.00
Martel & Valliere	90.00
Oscar McDuffee	208.00
McLaughlin & Day	116.00
M. J. McNulty	95.81
N. P. Morin	11.91
C. E. Newcomb	181.57
Charles Normand	120.00
Ande Nourie	21.00
Hertel Pariseau	117.00
Parnell Brothers	83.00

August Pearson	$204.00	
M. Peloquin	318.00	
Edmond Pinard	330.00	
A. H. Prince	104.00	
J. A. Provost	22.00	
Eugene Quirin	196.00	
Eugene Quirin & Co	186.00	
Guy T. Robinson	171.64	
A. L. Robitaille	246.00	
Rouleau & Messier	165.00	
Summer Street Market	25.00	
K. R. Tennant	15.00	
Joseph Trahan	71.78	
Twentieth Century Market	162.00	
Arthur Turgeon	28.00	
Moise Verrette	172.00	
H. T. Vezina	136.00	
E. C. Voisard	722.79	
Wiggin-Young Co	80.00	
		$12,045.04

FUEL.

J. B. Blanchard	$8.00	
Charles Boisclair	32.50	
G. A. Campbell & Co	1.25	
J. H. DeCourcy Coal Co	11.50	
J. M. Dery	30.38	
F. V. Duplesses	32.50	
Fellows & Son	10.00	
T. F. Fifield	2.75	
C. A. & A. W. Flint	2.00	
William Forest	93.75	
George O. Groux	22.00	
E. C. Haskell	7.00	
Charles E. Lessard	23.50	
Lessard & Richard	6.00	
Manchester Coal & Ice Co	13.00	
Joseph Masse	63.50	
Moore & Preston Coal Co	47.63	
Northern New England Coal Co	22.00	
People's Gas Light Co	9.00	
Raiche & Prince	38.50	
J. P. Russell	17.00	
Smith Box & Lumber Co	8.25	
Union Coal Co	25.00	
Henry Weber	19.00	
		$546.01

BOARD AND CARE AND RENT.

Mrs. Fred Beauchemin	$88.00	
Clement Beaudet	28.00	
Gedeon N. Belisle	38.50	
Henry A. Berger	132.00	
Mrs. Napoleon Chaput	110.00	
Abraham Cote	110.00	
John Donnelly	108.00	
Mrs. Martha A. Draper	90.00	
Joseph Dumas	97.00	
Elliot hospital	38.00	
Eugene G. Flanders	6.00	
Thomas Hebert	99.00	
Hillsborough County Farm	746.21	
Hospice St. Vincent de Paul	108.00	
Mrs. Robert Keefe	24.00	
King's Daughters' Benevolent Association	20.00	
Melvin A. Lewis	110.00	
Manchester Children's Home	96.00	
Mrs. C. B. Morrill	17.00	
Notre Dame Hospital	41.00	
Notre Dame Orphanage	468.00	
Old Ladies' Home	238.50	
St. Joseph's Boys' Home	48.00	
St. Joseph's Orphanage	144.00	
St. Patrick's Orphanage	222.00	
St. Pierre Orphanage	623.90	
Mrs. Eva St. Jean	10.00	
J. R. Straw	4.00	
Henry Volkman	13.50	
Gedeon Welcome	47.50	
West Side Lumber Co.	40.00	
Whittier & Foster	24.00	
Mrs. John Wilson	66.00	
		$4,056.11

BOOTS AND SHOES.

A. T. Beaumier	$8.00
Eugene C. Brigham	2.50
E. C. Chagnon & Co.	18.00
L. H. Chase Co.	11.50
Ernest Cummings	6.00
G. W. Dodge Shoe Co.	18.00
Duke & Whitney	3.22
O. E. Dubois	2.65
Family Shoe Store	3.00

Gedeon Gosselin	$10.00	
Heath's Shoe Store	11.15	
T. Gelinas	3.00	
Simeon Gregoire	8.00	
New Idea Shoe Co	18.25	
C. Pariseau & Co	15.50	
Pellerin & Simard	5.45	
J. Alfred Raymond	18.00	
Gustaf Schlough	4.50	
George H. Woodman, Inc	30.25	
		$196.97

CLOTHING.

James W. Hill Co	$1.09	
M. A. McDonough	2.00	
		$3.09

MEDICINE, MEDICAL SERVICES, FUNERAL EXPENSES.

Charles Boisclair, funeral outfit	$25.00	
Boufford, Letendre & Co., burial outfit	10.00	
G. M. Davis, M. D., examination for insanity	5.00	
Charles Dufort, medical supplies	24.04	
Herbert E. Dunnington, medical supplies	19.26	
J. Doucet & Co., medicine	1.45	
Elmer D. Goodwin, burial outfit	20.00	
Oscar L. Giguere, medicine	5.45	
John B. Hall Co., medicine	4.15	
Ezra A. Jones, M. D., professional services	3.00	
M. E. Kean, M. D., professional services	3.00	
Kerwin & Sheehan, supplies	9.25	
Leblanc & Provencher, medical supplies	15.44	
J. E. Lemaitre, M. D., professional services	3.00	
John A. Marshall, medicine	6.35	
Joseph McDonough & Co., funeral expenses	30.00	
F. C. Miville, medicine	1.35	
A. F. Precourt, medicine	3.30	
F. J. Pherson, M. D., professional services	3.00	
A. J. Precourt, medicine	2.10	
Charles H. Richardson Co., burial outfit	25.00	
Roy & Gadbois, burial outfits	35.00	
E. C. Tremblay, M. D., services	3.00	
F. L. Wallace, burial outfits	50.00	
Walsh & Cummings, medicine	3.05	
		$310.19

SUNDRIES.

A. N. Benoit, transportation to Concord	$5.00	
Brown & Burpee, glasses	7.00	

Boufford, Letendre & Co., transportation to hospital and Grasmere	$5.50	
Albert Halde, transportation to Grasmere	3.00	
Matthew McGrath, transportation	5.50	
D. L. Robinson, use of ambulance	3.00	
George P. Riordan, transportation	10.76	
Roy & Gadbois, use of taxicab	5.50	
		$45.26
Total expenditures		$19,407.77
Transferred to unappropriated money		792.23
		$20,200.00

Indigent Soldiers.

Appropriation		$400.00

EXPENDITURES.

GROCERIES.

E. W. Lewis	$24.00	
M. Verrette	95.90	
		$119.90

FUEL.

J. P. Russell	$24.50	
Union Coal Co	3.00	
		$27.50

BOARD AND CARE, RENT, MEDICINE.

John B. Hall Co	$0.65	
Mrs. M. L. Hartford	12.00	
Mathew Malloy	110.00	
Thomas Mitcheson	110.00	
		$232.65
Total expenditures		$380.05
Transferred to unappropriated money		19.95
		$400.00

Purchase of Land Sold for Taxes.

Appropriation	$5,000.00

EXPENDITURES.

George E. Morrill	$4,064.58
Total expenditures	$4,064.58
Transferred to unappropriated money	935.42
	$5,000.00

Board of Examiners of Plumbers.

Appropriation		$50.00

EXPENDITURES.

SUNDRIES.

John B. Clarke Co., printing 300 reports	$3.90	
Pike & Heald Co., pipe, solder, etc	44.96	
		$48.86
Total expenditures		$48.86
Transferred to unappropriated money		1.14
		$50.00

Band Concerts.

Appropriation	$300.00	
Transferred from unappropriated money	50.00	
		$350.00

EXPENDITURES.

Cadet Band	$50.00	
First Infantry Band	50.00	
Kosciuszki Band	50.00	
Lafayette Band	50.00	
Manchester City Band	50.00	
Jan Sobieski Polish Band	50.00	
Turner Band	50.00	
		$350.00
Total expenditures		$350.00

Militia.

Appropriation		$1,050.00

EXPENDITURES.

Band, First Regiment, N. H. N. G.	$50.00	
Battery A, First Regiment, N. H. N. G.	100.00	
Company A, First Regiment, N. H. N. G.	100.00	
Company B, First Regiment, N. H. N. G.	100.00	
Company F, First Regiment, N. H. N. G.	100.00	
Company K, First Regiment, N. H. N. G.	100.00	
Joseph Freschl Post, G. A. R.	100.00	
Louis Bell Post, G. A. R.	100.00	
Headquarters, First Regiment, N. H. N. G.	50.00	
Hospital Corps, N. H. N. G.	50.00	
Manchester War Veterans	100.00	
Spanish War Veterans	100.00	
		$1,050.00
Total expenditures		$1,050.00

Decoration of Soldiers' Graves.

Appropriation		$500.00

EXPENDITURES.

Joseph Freschl Post, G. A. R.	$100.00	
Louis Bell Post, G. A. R.	399.29	
		$499.29
Total expenditures		$499.29
Transferred to unappropriated money		.71
		$500.00

State Tax.

Appropriation	$129,920.00

EXPENDITURES.

State of New Hampshire	$129,920.00

County Tax.

Appropriation	$59,167.36

EXPENDITURES.

County of Hillsborough	$59,167.36

Celebration of Independence Day.

Appropriation	$1,000.00

EXPENDITURES.

SUNDRIES.

Barton Company, prize cups and engraving	$143.00	
Fox & McLean, prize, carnival parade	5.00	
Granite State Drum Corps, services	12.00	
George Jelley, prize, carnival parade	2.00	
W. S. H. Jones, services First Infantry Band	66.00	
Kosciusko Polish Society, prize, carnival parade	15.00	
Labore & Augers, prize, carnival parade	10.00	
Lafayette Band, concert, Lafayette park	50.00	
G. Frank Luicha, prize, carnival parade	15.00	
National Fireworks Co., fireworks display	500.00	
Rose Pellerin & Companions, prize, carnival parade	5.00	
Queen City Drum Corps, services	12.00	
Rainey's Cadet Band, concert, Massabesic and Belmont streets	50.00	
Zatae & Vernie Slack, prize, carnival parade	10.00	
Charles Slosberg & Companions, prize, carnival parade	5.00	
Smith-Ramsey Automobile Co., use of automobile	5.00	
Stacy, Stacy & Mitchell, prize, carnival parade	10.00	
Turner Band, concert, circus grounds	50.00	
West Side & 7-20-4 Baseball Clubs, 1 game	35.00	
		$1,000.00
Total expenditures		$1,000.00

Animal Rescue League.

Appropriation	$300.00

EXPENDITURES.

Animal Rescue League, amount appropriated	$300.00

Elliot Hospital.

Appropriation	$300.00

EXPENDITURES.

Elliot Hospital, amount appropriated	$300.00

Hospice St. Vincent de Paul.

Appropriation	$300.00

EXPENDITURES.

Hospice St. Vincent de Paul, amount appropriated	$300.00

Infant Asylum, Our Lady of Perpetual Help.

Appropriation	$300.00

EXPENDITURES.

Infant Asylum, Our Lady of Perpetual Help, amount appropriated	$300.00

Notre Dame de Lourdes Hospital.

Appropriation	$300.00

EXPENDITURES.

Notre Dame de Lourdes Hospital, amount appropriated	$300.00

Orphelinat St. Pierre.

Appropriation	$300.00

EXPENDITURES.

Orphelinat St. Pierre, amount appropriated	$300.00

Sacred Heart Hospital.

Appropriation	$300.00

EXPENDITURES.

Sacred Heart Hospital, amount appropriated.....	$300.00

St. John's Home.

Appropriation	$300.00

EXPENDITURES.

St. John's Home, amount appropriated.....	$300.00

St. Joseph's Boys' Orphanage.

Appropriation	$300.00

EXPENDITURES.

St. Joseph's Boys' Orphanage, amount appropriated.....	$300.00

St. Patrick's Girls' Orphanage.

Appropriation	$300.00

EXPENDITURES.

St. Patrick's Girls' Orphanage, amount appropriated....	$300.00

W. C. T. U. Mercy Home.

Appropriation	$300.00

EXPENDITURES.

W. C. T. U. Mercy Home, amount appropriated.....	$300.00

Women's Aid Home.

Appropriation	$300.00

EXPENDITURES.

Women's Aid Home, amount appropriated.....	$300.00

Young Men's Christian Association.

Appropriation	$300.00

EXPENDITURES.

Young Men's Christian Association, amount appropriated	$300.00

Manchester Boys' Club.

Appropriation	$300.00

EXPENDITURES.

Manchester Boys' Club, amount appropriated	$300.00

West Side Reading Room.

Appropriation	$100.00

EXPENDITURES.

West Side Reading Room, amount appropriated	$100.00

District Nursing Association.

Appropriation	$300.00

EXPENDITURES.

District Nursing Association, amount appropriated	$300.00

Settlement Association.

Appropriation	$300.00

EXPENDITURES.

Settlement Association, amount appropriated	$300.00

Revision of Ordinances.

Balance from last year unexpended	$1,000.00

EXPENDITURES.

Transferred to new account	$1,000.00

Resolution Raising Money and Making Appropriations for the Year 1912.

City of Manchester.

In the year one thousand nine hundred and twelve.

Resolved by the Board of Common Council of the City of Manchester, as follows:

That the sum of one million dollars ($1,000,000) be raised for the use of said city for the year one thousand nine hundred and twelve (1912), by tax on the polls and estates liable to be taxed thereon in said city, which sum, together with such unappropriated money as may be now in the city treasury, or may hereafter come into it, shall be appropriated as follows, to wit:

CENTRAL DEPARTMENT.

Interest	$48,600.00
Sinking fund	15,050.00
City hall	5,000.00
Printing and stationery	3,000.00
Incidental expenses	7.000.00
Land sold for taxes	5,000.00
Mayor's incidentals	300.00
City officers' salaries	37,500.00
Payment of funded debt	20,000.00
Payment of note due June 30, 1912	16,693.00
	$158,143.00

AUDITOR'S DEPARTMENT.

Salaries and expenses	$3,500.00

DEPARTMENT OF TAXES.

State tax	$129,920.00
County tax	59,167.36
	$189,087.36

ASSESSORS' DEPARTMENT.

Salaries and expenses	$11,350.00

ENGINEER'S DEPARTMENT.

Salaries and expenses	$10,500.00

BUILDING DEPARTMENT.

Salaries and expenses	$6,500.00
Repairs on public buildings	22,350.00
	$28,850.00

STREET AND SEWER DEPARTMENT.

Board of public works, salaries and expenses	$13,100.00
Snow and ice, and cleaning streets	15,000.00
Repair of highways	30,000.00
Watering streets	12,000.00
Paving streets	20,000.00
Grading for concrete	4,500.00
Scavenger service	30,000.00
Bridges	8,500.00
City teams	20,000.00
Repairs of sewers	6,000.00
New sewers	30,000.00
Brown-tail and gypsy moths	3,000.00
City yard	5,500.00
Macadamizing and new highways	30,000.00
Street sweeping	11,500.00
Machine sweeping	1,000.00
Cutting and trimming trees	2,350.00
Elm leaf beetle	3,000.00
Washing and flushing streets	2,000.00
	$247,450.00

SCHOOL DEPARTMENT.

Books and stationery	$50.00
Care of rooms	14,000.00
Contingent expenses	5,000.00
Evening schools	3,000.00
Evening schools—drawing	300.00
Free text-books and apparatus	10,000.00
Fuel	13,000.00
Furniture and supplies	2,500.00
Manual training	750.00
Printing and advertising	500.00
Teachers' salaries	137,000.00
Pianos (kindergarten)	500.00
Care of school clocks	350.00
Manual Training school equipment	500.00
	$187,450.00

FIRE DEPARTMENT AND HYDRANT SERVICE.

Fire department—salaries and maintenance	$110,000.00
Fire-alarm telegraph	5,500.00
Hydrant service	23,075.00
	$138,575.00

PUBLIC BUILDINGS AND PLACES.

Pine Grove cemetery	$19,500.00
Valley cemetery	5,000.00
Amoskeag cemetery	500.00
Merrill yard	100.00
Care of commons	5,085.00
Stark park	1,000.00
Derryfield park	1,000.00
Lafayette park	1,000.00
Miscellaneous playgrounds and caretakers	1,600.00
Parker common	800.00
Engine house, south of Piscataquog river	16,000.00
Care of city clocks	200.00
Prout park	300.00
Rock Rimmon park	2,000.00
Public wharf, west bank of Merrimack river	150.00
Maintenance of subway comfort	2,500.00
Sanitary drinking fountain at City Hall	325.00
	$57,060.00

HEALTH DEPARTMENT.

Office expenses	$9,900.00
Isolation hospital	6,900.00
Smallpox hospital	2,000.00
Medical inspection in schools	2,600.00
Motor ambulance	1,600.00
Medical inspection for employment certificates	600.00
	$23,600.00

POLICE DEPARTMENT.

Police station	$3,000.00
Police court	3,200.00
Police commission	79,780.00
	$85,980.00

CITY LIBRARY.

Salaries and expenses	$8,000.00
Purchase of books	2,500.00
	$10,500.00

PATRIOTIC, CHARITABLE AND PHILANTHROPIC.

Women's Aid home	$300.00
Elliot hospital	300.00
Sacred Heart hospital	300.00
Notre Dame hospital	300.00
Mercy home	300.00
Infant asylum	300.00
Decoration of soldiers' graves, Joseph Freschl, Post, G. A. R	100.00
Decoration of soldiers' graves, Louis Bell Post, G. A. R	400.00
Company A, First Regiment, N. H. N. G	100.00
Company B, First Regiment, N. H. N. G	100.00
Company F, First Regmient, N. H. N. G	100.00
Company K, First Regiment, N. H. N. G	100.00
Battery, N. H. N. G	100.00
Headquarters and band, First Regiment	100.00
Joseph Freschl Post, G. A. R	100.00
Louis Bell Post, G. A. R	100.00
Manchester War Veterans	100.00
Spanish War Veterans	100.00
Hospital corps	50.00
Band concerts	300.00
Celebration of Independence Day	1,000.00
Boys' club	300.00
Orphelinat St. Pierre	300.00
West Side reading room	100.00
St. Joseph's Boys' orphanage	300.00
Animal Rescue League	300.00
Hospice St. Vincent de Paul	300.00
Examiners of plumbers	50.00
St. John's home	300.00
St. Patrick's Girls' orphanage	300.00
Young Men's Christian Association	300.00
District Nursing Association	300.00
Settlement Association	300.00
	$7,800.00

OVERSEER OF THE POOR.

Paupers off farm	$18,000.00
Indigent soldiers	400.00
Salaries and expenses	2,200.00
	$20,600.00

LIGHTING STREETS.

Lighting streets	$65,300.00

Resolution Relating to the Final Transfers for the Year 1912.

City of Manchester.

In the year one thousand nine hundred and twelve.

Resolved by the Common Council of the City of Manchester as follows:

That the city clerk be and hereby is authorized to make the following transfers:

To account of money unappropriated.

From city hall	$323.82
city officers' salaries	455.58
building department	669.63
Board of public works	504.83
repairs of highways	1,842.65
street sweeping	3,241.97
bridges	2,505.52
new sewers	8,511.62
washing and flushing streets	2.000.00
commons	917.07
Stark park	222.28
Lafayette park	994.02
Rock Rimmon park	297.84
Derryfield park	180.01
miscellaneous playgrounds	756.08
Parker common	82.87
Prout park	300.00
lighting streets	382.43
health department	642.27
city library	.12
fire department	1,102.39
fire-alarm telegraph	415.22
police commission	1,154.68
police station	795.79
police court	294.42
repairs of public buildings	168.43
care of city clocks	200.00
subway comfort	39.45
public wharf, Merrimack river	150.00
Pine Grove cemetery	41.16
Valley cemetery	2.25
Amoskeag cemetery	139.77
Merrill cemetery	27.63
books and stationery	13.53
fuel	262.69
furniture and supplies	359.09
care of school rooms	340.69

From manual training	$192.47	
evening school—mechanical drawing	10.81	
evening schools	317.35	
teachers' salaries	7,749.42	
water for Mosquito pond	750.00	
care of school clocks	95.80	
paupers off farm	792.23	
indigent soldiers	19.95	
decoration of soldiers' graves	.71	
land sold for taxes	935.42	
board of examiners of plumbers	1.14	
unappropriated cash in treasury	8,914.58	
		$50,117.68
From account of unappropriated money:		
To interest	$2,022.83	
printing and stationery	468.56	
incidental expenses	12,475.30	
assessors' department	7.21	
snow and ice and cleaning streets	2,624.98	
watering streets	2,417.38	
paving streets	2,039.62	
macadamizing and new highways	7,117.41	
grading for concrete	4,935.32	
scavenger service	3,018.17	
city yard	137.41	
city teams	1,591.67	
repairs of sewers	1,827.41	
machine sweeping	1,189.26	
sanitary drinking fountain, city hall	90.84	
cutting and trimming trees	61.54	
elm leaf beetle	457.27	
brown-tail and gypsy moth	1,696.76	
land taken for highways	3,042.05	
printing and advertising	208.40	
contingent expenses	485.40	
free text-books	1,163.77	
manual training equipment	64.81	
new schoolhouses	924.31	
band concerts	50.00	
		$50,117.68

Passed to be enrolled, January 6, 1913.

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS.

Resident and nonresident.	Polls.		Real estate, value.	Stock in trade.	Money on hand, at interest, or on deposit, value.	Horses, asses, and mules, over 18 months old.		Automobiles and Carriages, value.	Cows, oxen, and other neat stock over 18 months old.	
	No.	Value.				No.	Value.		No.	Value.
1893	11,835	$1,183,500	$16,003,370.00	$2,554,818.00	$425,334.00	2,777	$210,032.00	$59,516.00	551	$11,656.00
1894	12,103	1,210,300	16,956,070.00	2,421,954.00	519,500.00	2,608	200,376.00	57,526.00	452	9,618.00
1895	11,244	1,224,400	17,688,224.00	2,435,546.00	149,592.00	2,639	196,264.00	59,128.00	431	9,710.00
1896	12,583	1,258,300	18,358,266.00	2,421,862.00	147,148.00	2,644	184,790.00	57,440.00	410	9,308.00
1897	12,921	1,292,100	18,763,182.00	2,772,460.00	113,288.00	2,617	174,746.00	57,810.00	507	10,920.00
1898	12,808	1,280,800	19,175,434.00	2,782,386.00	167,160.00	2,640	171,242.00	56,668.00	551	12,400.00
1899	13,137	1,313,700	19,301,762.00	3,939,419.00	176,388.00	2,648	169,977.00	58,129.00	619	14,570.00
1900	13,759	1,375,900	19,569,249.00	3,509,072.00	1,293,585.00	2,755	174,593.00	88,500.00	704	16,690.00
1901	13,976	1,397,600	19,922,261.00	3,888,517.00	394,436.00	2,669	174,242.00	99,976.00	551	14,076.00
1902	14,079	1,407,900	19,983,327.00	3,536,583.00	1,173,222.00	2,621	180,157.00	120,369.00	519	13,414.00
1903	14,384	1,438,400	20,137,200.00	3,303,445.00	1,210,597.00	2,577	179,065.00	129,404.00	554	16,039.00
1904	14,451	1,445,100	20,465,749.00	3,400,749.00	1,258,931.00	2,483	177,580.00	126,762.00	586	15,564.00
1905	14,650	1,465,000	20,966,778.00	3,858,690.00	1,125,553.00	2,384	196,597.00	150,365.00	696	20,989.00
1906	15,481	1,548,100	22,133,160.00	4,800,392.00	195,024.00	2,288	189,238 00	159,026.00	698	19,736.00
1907	15,800	1,580,000	23,401,086 00	4,940,178.00	162,330 00	2,406	207,395.00	176,351.00	695	19,978.00
1908	16,266	1,626,600	24,034,758.00	4,714,079.00	374,506.00	2,262	201,191 00	187,240.00	721	20,310.00
1909	16,093	1,609,300	24,347,963.00	4,968,343.00	119,972.00	2,220	200,821.00	221,902.00	681	19,503.00
1910	17 261	1,726,100	25,247,605.00	5,345,478.00	260,692.00	2,545	210,434.00	281,507.00	627	18,515.00
1911	20,092	2,009,200	25,910,972.00	5,384,344.00	279,554.00	2,171	210,622.00	310,037.00	631	20,031.00
1912	18,942	1,894,200	41,754,957.00	7,789,814.00	555,830.00	2,305	319,590.00	422,059.00*	735	27,242.00

* Automobiles $260,140.00

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS.—*Concluded.*

Hogs.		Sheep over six months old.		Boats.	Fowls.	Stock in banks and other corporations, value.	Stock in public funds and bonds, value.	Factories and their machinery, value.	Total value.	Rate of tax per hundred.	Tax levied.
No.	Value.	No.	Value.	Value.	Value.						
12	$120.00	13	$38.00	.....	$52.00	$317,600.00	$5,600.00	$6,667,906.00	$27,439,742.00	$1.85	$507,640.68
73	820.00	40	80.00	.....	316.00	230,000.00	22,100.00	6,763,050.00	28,391,710.00	1.78	505,372.44
52	524.00	29	62.00	.....	174.00	263,166.00	1,400.00	6,774,950.00	28,861,122.00	1.74	502,183.02
26	260.00	43	90.00	.....	.....	249,104.00	2,000.00	6,755,100.00	29,443,668.00	1.86	547,651.50
45	470.00	33	56.00	.....	.....	233,264.00	.....	7,068,650.00	30,486,946.00	2.08	634,127.80
69	490.00	43	64.00	.....	610.00	250,934 00	.....	7,090,300.00	30,988,488.00	1.95	604,280 57
45	418.00	11	24.00	.....	756.00	222,460.00	.....	6,294,181.00	31,491,784.00	1.95	614,096.93
35	354.00	7	14.00	.....	904.00	213,344.00	.....	6,464,589.00	32,706,794.00	1.90	621,428.47
12	92.00	6	18.00	.....	1,200.00	223,780.00	.....	6,924,919.00	33,041,112.00	1.98	654,214.00
.....	.....	8	24.00	.....	1,400.00	227,982.00	.....	6,399,956.00	33,044,334.00	2.25	743,497.53
7	100.00	.....	.....	.....	832.00	210,272.00	.....	6,194,496 00	32,819,850.00	2.10	689,217.79
2	20.00	.....	220.00	.....	410.00	185,950.00	.....	6,102,524.00	33,179,294.00	1.95	647,003.29
27	190.00	5	.16	.....	1,337.00	287,220.00	.....	6,103,731.00	34,176,466.00	2.08	710,870.13
18	224.00	.....	.....	.....	1,314.00	239,002.00	.....	6,128,294.00	35,413,510.00	1.91	676,402.89
23	272.00	.....	.....	.....	871.00	233,746.00	4,700.00	6,247,487 00	36,968,394.00	1.85	683,915.28
22	274.00	.....	.....	$700.00	810.00	250,818.00	2,200.00	6,333,222.00	37,746,708.00	1.86	702,088.28
18	195.00	.....	.....	.....	902.00	228,348.00	34,900.00	6,350,795.00	38,102,944.00	2.05	781,118.54
54	770.00	.....	.....	.....	972.00	256,153.00	57,730.00	6,475,896.00	39,881,852.00	2.01	801,628.21
71	1,058.00	.....	.....	.....	1,612.00	232,832.00	592,708.00	6,498,876.00	41,451,846.00	2.04	845,616.91
168	1,493.00	14	54.00	.....	2,848.00	154,595.00	501,362.00	13,588,433.00	67,012,487.00	1.50	1,005,191.73

Assessors' Oath.

We, the assessors of the city of Manchester, do solemnly swear that in making the invoice for the purpose of assessing the foregoing taxes we appraise all taxable property at its full value, and as we would appraise the same in payment of a just debt due from a solvent debtor. *So help us God.*

Valuation and Taxes.

The amount of taxes assessed on the polls and on the real and personal estate, within the city of Manchester, N. H., for the year 1912 was as follows:

	Valuation.	Rate.	Tax.
Real estate	$55,343,400	1.50	$830,151.00
Personal property	9,774,887	1.50	146,623.31
	$65,118,287		$976,774.31
Number of polls, 18,942	1,894,200		28,413.00
	$67,012,487		$1,005,187.31
Fractional gain			4.42
			$1,005,191.73
School tax			365.00
Brown-tail moth tax			1,068.37
Property exempt from city tax only			3,633.86
Total tax levied			$1,010,258.96

The share distributed to Manchester of the amount of tax assessed, as per returns made by the corporations to state treasurer:

On railroads	$56,961.58
On savings banks	91,574.68
On insurance companies	4,412.62
On literary fund	4,550.56
Grand tax total	$1,167,758.40

For further information in relation to taxes collected by the state, see state treasurer's report.

TAX VALUATIONS, ETC., FROM 1890 TO 1912, INCLUSIVE.

YEAR.	Valuation.	Taxes.	No. polls.	Poll tax.	Valuation of poll.
1890	$24,207,740	$462,809.17	9,723	$1.91	$100
1891	24,872,492	443,541.76	10,367	1.78	100
1892	25,932,044	506,465.17	10,673	1.95	100
1893	27,439,742	507,640.68	11,835	1.85	100
1894	29,391,710	505,372.44	12,103	1.78	100
1895	28,861,122	502,183.02	12,244	1.74	100
1896	29,443,668	547,651.50	12,583	1.86	100
1897	30,486,946	634,127.80	12,921	2.08	100
1898	30,988,488	604,280.57	12,808	1.95	100
1899	31,491,784	614,096 93	13,137	1.95	100
1900	32,706,794	621,428.47	13,759	1.90	100
1901	33,041,112	654,214.00	13,976	1.98	100
1902	33,034,334	743,497.53	14,079	2.25	100
1903	32,819,850	689,217.79	14,384	2.10	100
1904	33,179,294	647,003.29	14,451	1.95	100
1905	34,176,466	710,870.13	14,650	2.08	100
1906	35,413,510	676,402.89	15,481	1.91	100
1907	36,968,394	683,915.28	15,800	1.85	100
1908	37,746,708	702,088.28	16,266	1.86	100
1909	38,102,944	781,118.54	16,093	2.05	100
1910	39,881,852	801,628.21	17,261	2.01	100
1911	41,451,846	845,616.91	20,092	2.04	100
1912	67,012,487	1,005,191.73	18,942	1.50	100

Statement of Account of George E. Morrill, Tax Collector for the City of Manchester, N. H., June 1, 1912.

	Amount outstanding June 1, 1911.	Collected.	Balance outstanding June 1, 1912.
Tax list, 1885	$1,205.71		$1,205.71
1886	1,264.85		1,264.85
1887	1,163.94		1,163.94
1888	1,580.13		1,580.13
1889	1,395.13		1,395.13
1890	1,687.08		1,687.08
1891	1,966.63		1,966.63
1892	2,582.12		2,582.12
1893	4,095.13		4,095.13
1894	3,514.05		3,514.05
1895	5,004.92		5,004.92
1896	4,992.00		4,992.00
1897	5,296.91		5,296.91
1898	5,629.21		5,629.21
1899	5,675.09		5,675.09
1900	5,150.11		5,150.11
1901	6,068.01		6,068.01
1902	6,501.97		6,501.97
1903	7,154.47		7,154.47
1904	6,638.33		6,638.33
1905	8,319.16	$1.04	8,318.12
1906	8,768.81	1.91	8,766.90
1907	7,353.87	19.98	7,333.89
1908	8,260.00	258.54	8,001.46
1909	7,328.68	54.33	7,274.35
1910	8,719.31	609.01	8,110.30
Amount collected		$944.81	

Credit by cash as per treasurer's receipt, No. 185 in 1912	$920.80	
Credit by abatement on assessors' warrant	24.01	
		$944.81
Interest collected		$1,785.28
Credit by cash as per treasurer's receipt, No. 188 in year 1912		$1,785.28
Costs collected		$2,248.40
Credit by cash as per treasurer's receipts Nos. 184 and 419 in year 1912		$2,248.40

DR.

1911.			
June 1.	To warrant resident list	$844,137.05	
	warrant non-resident list	1,479.86	
	voluntary list	864.87	
	warrant school tax	303.88	
	moth tax	1,121.81	
	state and county tax on exempted property	1,108.93	
			$849,016.40

CR.

1911, 1912.		
By cash paid treasurer, per vouchers Nos. 235, 278, 292, 312, 329, 358, 367, 375, 423, 425 in year 1911, and 42, 113, 151, 182 in year 1912	$834,017.29	
By abatements on assessors' warrants 1911 and 1912	3,508.73	
By unpaid taxes, June 1, 1912	11,490.38	
		$849,016.40

MANCHESTER, N. H., August 1, 1912.

I hereby certify that I have examined the account of George E. Morrill, tax collector of said Manchester, and find the same correct, as above stated.

JAMES E. DODGE,
City Auditor.

TABLE OF TAXES DUE AND UNCOLLECTED.

Year.	Due January 1, 1912, assessed in 1912.	Discounts and abatements, 1912.	Collected in 1912	Due December 31, 1912.
Taxes of 1885	$1,205.71	.....	.....	$1,205.71
" of 1886	1,264.85	.....	.....	1,264.85
" of 1887	1,163.94	.....	.....	1,163.94
" of 1888	1,580.13	.....	.....	1,580.13
" of 1889	1,395.13	.....	.....	1,395.13
" of 1890	1,687.08	.....	.....	1,687.08
" of 1891	1,966.63	.....	.....	1,966.63
" of 1892	2,582.12	.....	.....	2,582.12
" of 1893	4,095.13	.....	.....	4,095.13
" of 1894	3,514.05	.....	.....	3,514.05
" of 1895	5,004.92	.....	.....	5,004.92
" of 1896	4,992.00	.....	.....	4,992.00
" of 1897	5,296.91	.....	.....	5,296.91
" of 1898	5,629.21	.....	.....	5,629.21
" of 1899	5,675.09	.....	.....	5,675.09
" of 1900	5,150.11	.....	.....	5,150.11
" of 1901	6,068.01	.....	.....	6,068.01
" of 1902	6,501.97	.....	.....	6,501.97
" of 1903	7,154.47	.....	.....	7,154 47
" of 1904	6,638.33	.....	.....	6,638.33
" of 1905	8,319.16	.....	$1.04	8,318.12
" of 1906	8,768.81	.....	1.91	8,766.90
" of 1907	7,353.87	.....	19.98	7,333.89
" of 1908	8,258.14	.....	256.68	8,001.46
" of 1909	7,253 82	.....	54.33	7,199.49
" of 1910	7,533.61	.....	592.93	6,940.68
" of 1911	72,299.53 3,399.49	$435.38	63,773.28	11,490.38
" of 1912	1,005,191.73	.....	861,132.04	144,059.69

Some Laws and Decisions Relating to Exemptions from Taxation.

Constitution of New Hampshire, Article 82, Page 38, Public Statutes.

ENCOURAGEMENT OF LITERATURE, ETC.

Art. 82. "Knowledge and learning generally diffused through a community being essential to the preservation of a free government, and spreading the opportunities and advantages of education through the various parts of the country being highly conducive to promote this end, it shall be the duty of legislators and magistrates, in all future periods of this government, to cherish the interests of literature and the sciences, and all seminaries and public schools; to encourage private and public institutions, rewards, and immunities for the promotion of agriculture, arts, sciences, commerce, trades, manufactures, and natural history of the country; to countenance and inculcate the principles of humanity and general benevolence, public and private charity, industry and economy, honesty and punctuality, sincerity, sobriety, and all social affections and generous sentiments among the people; *provided, nevertheless*, that no money raised by taxation shall ever be granted or applied for the use of schools or institutions of any religious sect or denomination."

Public Statutes, Chapter 55.

"Sect. 2. Real estate, whether improved or unimproved, and whether owned by residents or others, is liable to be taxed, except houses of public worship, twenty-five hundred dollars of the value of parsonages owned by religious societies and occupied by their pastors, schoolhouses, seminaries of learning, real estate of the United States, state or town used for public purposes and almshouses on county farm."

"Sect. 11. Towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some towns; *provided, however*, that the assessors shall annually appraise such property and the valuation determined upon for the same shall be added to the valuation of all other property in the town to determine the total valuation for the purposes of state and county taxes."

OPINION OF THE SUPREME COURT.

58 N. H. Rep., page 623. "The exemption in each case is limited to ten years. A perpetual alienation of the whole power of taxation would be the destruction of government; and the dangerous tendency of legislation suspending any part of that power, for any period, is

manifest. *P. Bank* v. *Billings*, 4 Pet. 514, 561. So long as the existing laws remain unrepealed, and the constitutional construction heretofore adopted remains unchanged, contracts hereafter made under these laws and that construction will be valid. If the legislature for any reason wish to prevent the making of any more such contracts, their object can be accomplished by a repeal of the laws authorizing them."

Hospitals, etc., are exempt from taxation in their respective charters as "being of the nature of a public charity," as follows:

Gale Home for Aged and Destitute Women, N. H. Laws of 1899, chapter 199.

Elliot hospital, N. H., Laws of 1881, chapter 178.

Manchester Woman's Aid and Relief Society, organized in January, 1875, N. H. Laws, 1891, chapter 283.

Orphanage and Home for Old Ladies (Catholic) on Hanover street, N. H. Laws, 1883, chapter 56.

Schedule of Property Used for Religious, Charitable and Educational Purposes, and Exempt from Taxation by Law, not Including that owned by the City of Manchester.

Convent, Sisters Jesus-Mary, French Catholic; East Spruce street, near Beech:		
Building	$8,000.00	
13,000 square feet of land	3,220.00	
		$11,220.00
Convent, Sisters of Mercy, Catholic; 415 Union street, corner Laurel:		
Building	$30,000.00	
12,600 square feet of land	3,760.00	
		$33,760.00
Mount St. Mary's academy, Catholic; from convent lot east to Beech street:		
Building	$25,000.00	
31,500 square feet of land	9,450.00	
		$34,450.00
Catholic library; Union street:		
Building	$5,000.00	
4,900 square feet of land	2,450.00	
		$7,450.00
Convent of Holy Angels; Beauport and Wayne streets:		
Building	$22,000.00	
22,500 square feet of land	11,250.00	
		$33,250.00

L'orphelinat St. Pierre; 55 Alsace street:		
Building	$22,500.00	
83,331 square feet of land	12,500.00	
		$35,000.00
Monastery Precious Blood; 555 Union street:		
Building	$20,000.00	
7,750 square feet of land	3,875.00	
		$23,875.00
Mt. St. Mary's convent; 131 Laurel street:		
Building	$1,275.00	
4,500 square feet of land	1,125.00	
		$2,400.00
Notre Dame hospital; Notre Dame avenue:		
Building	$100,000.00	
90,500 square feet of land	45,250.00	
		$145,250.00
Sacred Heart hospital; Amherst and Hanover streets:		
Building	$20,000.00	
40,500 square feet of land	30,335.00	
		$50,375.00
Sacred Heart hospital; Nurses' home:		
Building	$3,000.00	
15,000 square feet of land	5,350.00	
		$835.00
St. Augustine orphanage; 251 Lake avenue:		
Building	$15,000.00	
10,000 square feet of land	3,000.00	
		$18,000.00
St. Isidor convent; Orange street:		
Building	$40,000.00	
14,000 square feet of land	4,000.00	
		$44,000.00
House of St. Martha; 131 Laurel street:		
Building	$1,500.00	
4,500 square feet of land	1,125.00	
		$2,625.00
St. Martha's home; Merrimack street:		
Building	$1,000.00	
4,500 square feet of land	1,800.00	
		$2,800.00
St. Patrick's orphanage; 184 Hanover street:		
Building	$47,000.00	
40,500 square feet of land	40,500.00	
		$87,500.00
Sisters of Mercy; 151 Ray street:		
Building	$3,000.00	
10,500 square feet of land	1,050.00	
		$4,050.00

Sisters of Mercy; 1004 Union street:		
Building	$720.00	
10,721 square feet of land	1,280.00	
		$2,000.00
		$546,355.00

CATHOLIC CHURCHES.

Catholic chapel; Auburn street:		
Building	$10,000.00	
5,000 square feet of land	1,500.00	
		$11,500.00
Catholic church; Pinard street:		
Building	$8,000.00	
43,905 square feet of land	1,200.00	
		$9,200.00
Catholic church; South Elm street:		
Building	$3,360.00	
18,972 square feet of land	4,740.00	
		$8,100.00
St. Anne's church; Union and Merrimack streets:		
Building	$50,000.00	
20,520 square feet of land	6,000.00	
		$56,000.00
St. Antoine de Padoue; Belmont street:		
Building	$10,000.00	
55,700 square feet of land	8,350.00	
		$18,350.00
St. Augustine's:		
Building	$80,000.00	
26,000 square feet of land	7,800.00	
		$87,800.00
St. George's church; Pine and Orange streets:		
Building	$75,000.00	
18,690 square feet of land	7,614.00	
		$82,614.00
St. Hedwidge church; Merrimack and Pine streets:		
Building	$30,000.00	
9,000 square feet of land	3,600.00	
		$33,600.00
St. Joseph's cathedral; Pine and Lowell streets:		
Building	$120,000.00	
46,050 square feet of land	46,050.00	
		$166,050.00

St. Mary's church; Wayne and Notre Dame avenue:		
Building	$150,000.00	
70,000 square feet of land	35,000.00	
		$185,000.00
St. Patrick's church and school; Kelley street:		
Building	$68,000.00	
56,281 square feet of land	22,500.00	
		$90,500.00
St. Raphael's church; Third and Ferry streets:		
Building	$35,000.00	
59,239 square feet of land	14,800.00	
		$49,800.00
Sacred Heart church, South Main street:		
Building	Building in process	
Land		
		$25,000.00
		$823,514.00

CATHOLIC PARSONAGES.

Residence priest St. Anne's church, Catholic; 231 Merrimack street:		
Building	$5,000.00	
10,080 square feet of land	2,646.00	
		$2,500.00
	$7,646.00	
Residence of Catholic bishop; 145 Lowell street:		
Building	$20,000.00	
18,050 square feet of land	13,500.00	
		$2,500.00
	$33,500.00	
Residence priest St. George's church, French Catholic; Orange street, corner Pine:		
Building	$5,140.00	
5,930 square feet of land	2,360.00	
		$2,500.00
	$7,500.00	
Residence priest St. Mary's church, French Catholic; 378 Notre Dame avenue, West Manchester:		
Building	$25,000.00	
10,000 square feet of land	5,000.00	
		$2,500.00
	$30,000.00	

Residence priest St. Augustine church, French Catholic; 383 Beech street:		
Building	$6,000.00	
7,500 square feet of land	2,350.00	
		$2,500.00
	$8,350.00	
Residence priest St. Hedwidge church, Polish Catholic; on church land, Pine street:		
Building	$5,000.00	
		$2,500.00
Residence priest St. Antoine de Padoue church, French Catholic; 172 Belmont street:		
Building	$2,500.00	
50,586 square feet of land	2,500.00	
		$2,500.00
	$5,000.00	
Residence Order St. Benedict, Catholic; Ferry street:		
Building	$3,000.00	
4,125 square feet of land	1,000.00	
		$2,500.00
	$4,000.00	
		$20,000.00

CATHOLIC SCHOOLS.

Catholic school; Union and Laurel streets:		
Building	$4,250.00	
4,500 square feet of land	1,350.00	
		$5,600.00
Catholic school; Belmont street:		
Building	$4,440.00	
5,606 square feet of land	560.00	
		$5,000.00
Catholic school; Cedar and Beech streets:		
Building	$35,000.00	
15,000 square feet of land	3,000.00	
		$38,000.00
Holy Rosary school; 30 Cedar street:		
Building	$9,000.00	
2,500 square feet of land	1,875.00	
		$10.875.00
McDonald school:		
Building	$40,000.00	
10,800 square feet of land	3,240.00	
		$43,240.00
Orphanage school:		
Building	$25,000.00	
30,000 square feet of land	6,000.00	
		$31,000.00

St. Agnes' school:		
Building	$14,000.00	
15,000 square feet of land	4,500.00	
		$18,500.00
St. Augustine's academy:		
Building	$8,000.00	
15,000 square feet of land	4,500.00	
		$12,500.00
St. George's school:		
Building	$40,000.00	
10,000 square feet of land	4,000.00	
		$44,000.00
St. Joseph's High school:		
Building	$13,000.00	
8,000 square feet of land	12,000.00	
		$25,000.00
St. Joseph's Girls' school; cathedral lot:		
Building	$14,000.00	
		$14,000.00
St. Mary's school:		
Building	$46,000.00	
20,000 square feet of land	4,000.00	
		$50,000.00
Polish Catholic school; Merrimack and Union streets:		
Building	$43,000.00	
8,820 square feet of land	3,525.00	
		$46,525.00
		$344,240.00

PROTESTANT CHURCHES.

First Baptist church; Union street, corner Concord:		
Building	$28,000.00	
11,250 square feet of land	6,750.00	
		$34,750.00
First Freewill Baptist church; Merrimack street, corner Chestnut:		
Building	$12,400.00	
12,600 square feet of land	12,600.00	
		$25,000.00
Second Baptist church, Merrimack street, near Pine:		
Building	$9,000.00	
9,450 square feet of land	3,780.00	
		$12,780.00

People's Baptist church; Chestnut street, corner Concord:		
Building	$8,000.00	
4,000 square feet of land	4,000.00	
		$12,000.00
First Congregational church; Hanover street, corner Franklin:		
Building	$35,000.00	
42,560 square feet of land	34,048.00	
		$69,048.00
Second Congregational church; Market street, corner Franklin:		
Building	$32,000.00	
10,000 square feet of land	25,000.00	
		$57,000.00
Third Congregational church; South Main street, corner Milford, West Manchester:		
Building	$8,000.00	
20,465 square feet of land	4,093.00	
		$12,093.00
First M. E. church; Valley street, corner Jewett:		
Building	$8,000.00	
11,400 square feet of land	1,228.00	
		$9,228.00
St. Paul's M. E. church; Union street, corner Amherst:		
Building	$25,000.00	
13,500 square feet of land	6,250.00	
		$31,250.00
Trinity M. E. church; School street:		
Building	$3,500.00	
8,604 square feet of land	2,580.00	
		$6,080.00
St. James M. E. church; Pennacook street, corner Pine:		
Building	$10,000.00	
17,160 square feet of land	3,430.00	
		$13,430.00
Grace church, Episcopal; Lowell street, corner Pine:		
Building	$25,000.00	
15,950 square feet of land	8,950.00	
		$33,950.00
First Unitarian church; Concord street, corner Beech:		
Building	$25,000.00	
13,500 square feet of land	5,400.00	
		$30,400.00

First Universalist church; Lowell street, near Elm:		
Building	$22,000.00	
8,800 square feet of land	13,200.00	
		$35,200.00
Christian church, Protestant; Hall street, corner Merrimack:		
Building	$9,000.00	
9,975 square feet of land	1,195.00	
		$10,195.00
Jewish temple; Laurel street:		
Building	$825.00	
2,250 square feet of land	675.00	
		$1,500.00
First Presbyterian church, German; Second street, corner Bath, West Manchester:		
Building	$3,000.00	
10,000 square feet of land	2,500.00	
		$5,500.00
Swedish Lutheran church, Protestant; Sagamore, corner Pine:		
Building	$8,000.00	
11,000 square feet of land	2,200.00	
		$10,200.00
Swedish Evangelical Mission; Pine street, corner Orange:		
Building	$6,500.00	
5,600 square feet of land	2,240.00	
		$8,740.00
Swedish Baptist church; Arlington street, near Maple:		
Building	$5,000.00	
4,822 square feet of land	964.00	
		$5,964.00
Second Advent church; Amherst street, between Pine and Union:		
Building	$5,500.00	
4,500 square feet of land	1,575.00	
		$7,075.00
City Mission chapel, Protestant; Merrimack street, corner Beech:		
Building	$7,000.00	
12,600 square feet of land	3,680.00	
		$10,680.00
Westminster Presbyterian church; Brook street, corner Hazel:		
Building	$15,000.00	
10,000 square feet of land	2,500.00	
		$17,500.00

South Manchester Union chapel Protestant; Elm street, south:		
Building	$2,500.00	
10,747 square feet of land	1,500.00	
		$4,000.00
First Church of Christ, Scientist; Harrison street, corner Albert:		
Building	$15,000.00	
17,000 square feet of land	6,800.00	
		$21,800.00
Episcopal Mission church; North Main street, corner School, West Manchester:		
Building	$4,850.00	
19,412 square feet of land	4,000.00	
		$8,850.00
Congregation Adath Yashuran church; Central, near Maple:		
Building	$18,950.00	
7,000 square feet of land	1,050.00	
		$20,000.00
First German church; Conant street:		
Building	$5,000.00	
9,650 square feet of land	2,400.00	
		$7,400.00
Pentacostal church:		
Building	$2,030.00	
3,246 square feet of land	970.00	
		$3,000.00
Residence pastor St. Paul's M. E. church; Union street; near Amherst:		
Building	$2,500.00	
		$2,500.00
Residence pastor First Congregational church; 590 Beech street, near Bridge:		
Building	$4,500.00	
10,000 square feet of land	2,500.00	
		$2,500.00
	$7,000.00	
Residence pastor Grace Episcopal church; corner of Harrison and Union streets:		
Building	$3,750.00	
19,000 square feet of land	4,750.00	
		$2,500.00
	$8,500.00	
German School society; Third, Bath and Ferry streets:		
Building	$4,500.00	
10,190 square feet of land	2,500.00	
		$7,000.00

Elliot hospital, Protestant; East Manchester:		
Building	$50,000.00	
Land	53,735.00	
		$103,735.00
Elliot hospital lot; Hanover street, corner Chestnut:		
Building	$5,000.00	
7,500 square feet of land	15,000.00	
		$20,000.00
Elliot hospital:		
Land and buildings, Main street	$3,800.00	
Land and buildings, Quincy street	2,000.00	
		$5,800.00
Elliot hospital:		
69,470 square feet of land, Massabesic street		$3,473.00
Women's Aid home; Pearl street, corner Beech:		
Building	$15,620.00	
57,530 square feet of land	14,380.00	
		$30,000.00
Women's Aid home; Bridge street, corner Chestnut:		
Buildings	$4,800.00	
6,137 square feet of land	2,400.00	
		$7,200.00
Women's Aid home; 136 Walker street:		
Building	$400.00	
5,500 square feet of land	1,100.00	
		$1,500.00
Manchester Children's home; Webster street:		
Building	$15,000.00	
55,000 square feet of land	5,500.00	
		$20,500.00
Manchester Children's home:		
7,191 square feet of land, Pearl street	$2,400.00	
1,250 square feet of land, Elm street	10,625.00	
Building	900.00	
5,000 square feet of land, 78 Pennacook street	900.00	
Building	1,100.00	
9,406 square feet of land, 266, 274 Pearl street	3,150.00	
		$18,300.00
Residence pastor Swedish Lutheran church; Sagamore street, corner Pine:		
Building	$2,000.00	
10,200 square feet of land	1,500.00	
		$2,500.00
	$3,500.00	

Gale home:		
One half Martin's block, Elm street....	$26,000.00	
Land and building, Pearl street, corner Ash	51,500.00	
		77,500.00
Masonic home, Beech street:		
Building	$17,000.00	
56,700 square feet of land.....	7,500.00	
		$24,500.00
One half land and buildings, 193 Pearl street	$2,400.00	
One half land and buildings, 266 Pearl street	3,150.00	
		$5,500.00
Mercy home, Mammoth road:		
Building	$2,500.00	
11.4 acres of land.....	4,500.00	
		$7,000.00
		$8,666,621.00

STATE PROPERTY.

State armory:		
State building	$30,000.00	
24,000 square feet of land.....	24,000.00	
		$54,000.00
State Industrial school:		
State buildings.....	$75,000.00	
98.3 acres.....	98,500.00	
		$173,500.00
		$227,500.00

COUNTY PROPERTY.

Hillsborough county court house:		
Building	$20,000.00	
19,200 square feet of land.....	57,000.00	
		$77,000.00
Hillsborough county jail:		
Building	$75,000.00	
147,000 square feet of land.....	29,400.00	
		$104,000.00
		$181,400.00

UNITED STATES PROPERTY.

United States postoffice:		
Building	$150,000.00	
30,322 square feet of land.....	37,900.00	
		$187,900.00

EXEMPT FROM TAXATION.

Church property, Catholic	$823,514.00	
Convent property, Catholic	124,630.00	
Parochial residences, Catholic	20,000.00	
Parochial schools, Catholic	344,240.00	
Hospitals and other charitable institutions	421,725.00	
		$1,734,109.00
Church property, Protestant	$524,613.00	
Parochial residences, Protestant	10,000.00	
Private school property, Protestant	7,000.00	
Hospitals and other charitable institutions	325,008.00	
		866,621.00
United States, state, and county property		596,800.00
Total		$3,197,530.00

TAXABLE.

Land and buildings, Catholic	$80,996.00	
Land and buildings, Protestant	11,500.00	
		$92,496.00
Total exempt and taxable		$3,290,023.00

STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.

Date of issue.	Description.	Number.	Denomination.	Amount.	Total.	Date when the principal is payable.	Interest. Rate per ct.	When payable.	Where payable.
Dec. 15, 1895	Water bonds.	50	$1,000	$50,000	$50,000	December 15, 1915	4	Semiannual	Second Nat. Bk., Boston, Mass.
Oct. 1, 1894	" "	50	1,000	50,000	50,000	October 1, 1914	4	"	" " "
Nov. 1, 1883	" "	100	1,000	100,000	100,000	November 1, 1913	4 1-2	"	" " "
Aug. 1, 1893	" "	100	1,000	100,000	100,000	August 1, 1913	5	"	" " "
Jan. 1, 1897 Refunded	" "	100	1,000	100,000	100,000	" 1, 1917	4	"	" " "
July 1, 1895 Refunded	" "	100	1,000	100,000	100,000	" 1, 1915	4	"	" " "
July 1, 1911 Refunded	Bridge bonds.	55	1,000	55,000	55,000	$5,000 annually from July 1. 1913, to 1923, inclusive	4	"	" " "
April 1, 1905	City bonds.	50	1,000	50,000	50,000	April 1, 1925	3 1-2	"	" " "
" 1, 1907	" "	50	1,000	50,000	50,000	" 1, 1927	4	"	" " "
" 1, 1909	" "	50	1,000	50,000	50,000	" 1, 1929	3 1-2	"	" " "
July 1, 1893	Improv'm't bonds	100	1,000	100,000	100,000	January 1 1913	4	"	" " "
June 1, 1894	" "	100	1,000	100,000	100,000	April 1, 1914	4	"	" " "
April 1, 1895	" "	100	1,000	100,000	100,000	" 1, 1915	4	"	" " "
" 1, 1896	" "	100	1 000	100,000	100,000	" 1, 1916	4	"	" " "
" 1, 1910	" "	100	1,000	100,000	100,000	" 1, 1930	3 1-2	"	" " "

STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.—*Concluded.*

Date of issue.	Description.	Number.	Denomination.	Amount.	Total.	Date when the principal is payable.	Interest. Rate per ct.	Interest. When payable.	Interest. Where payable.
July 1, 1912	Improv'm't bonds	100	1,000	100,000	100,000	$5,000 annually from July 1, 1913, to July 1, 1933, inclusive	3 1-2	Semiannual	Second Nat. Bk., Boston, Mass.
July 1, 1895	School bonds.	30	1,000	30,000	30,000	$10,000 July 1, 1913 and $10,000 annually thereafter	4	"	" " "
" 1, 1896	" "	40	1,000	40,000	40,000	July 1, 1916	4	"	" " "
July 1, 1911	" "	98	1,000	98,000	98,000	$5,000 July 1, 1913, and $5,000 annu'y to 1930 inclu., and $8,000 July 1, 1931.	3 1-2	"	" " "
April 1, 1899	City bonds.	100	1,000	100,000	100,000	April 1, 1919	3 1-2	"	" " "
July 1, 1902	Municipal bonds.	80	1,000	80,000	80,000	July 1, 1922	3 1-2	"	" " "
Oct. 1, 1910	Cemetery bonds.	21	1,000	21,000	21,000	October 1, 1930	3 1-2	"	" " "
Sept. 1, 1912	Fire alarm bonds	105	1,000	105,000	105,000	$5,000 Sept. 1, 1913, and $5000 annu'ly to Sept. 1, 1932, inclus'e, and $10,000 Sept. 1. 1933.	3 1-2	"	" " "
					$1,779,000				

REMARKS. The city guarantees the perpetual care of lots in the cemeteries of the city to parties who pay $100 and upward. There are $50,000 in cemetery bonds, so called, not negotiable, in the hands of the city treasurer, which are not included in the $1,779,000.

Total amount of bonded debt, including cemetery bonds	$1,829,000.00
Net indebtedness for water purposes	500,000.00
Net debt after deducting water debt	$1,329,000.00

As shown in the assessors' books for the year 1912.

The assessed value of personal property, including poll tax	$11,669,087.00
The assessed value of real estate	55,343,400.00
Total value for taxation	$67,012,487.00

Tax rate, 1.50 percent on a hundred.

Percent of net indebtedness (excluding debt for water purposes) to assessed valuation	1.983
Percent of net indebtedness (including debt for water purposes) to assessed valuation	2.73
Population, census of 1910	70,063

No issue of bonds has ever been contested.

The interest on the debt has always been promptly paid at maturity.

None of the bonds are stated specifically as being payable in gold.

None of the bonds can be called for redemption.

A sinking fund was established in 1893.

Total amount of sinking fund December 31, 1912, $739,192.05.

The power of the city to borrow money in relation to the water-works is limited to the sum of $600,000 by section 6, chapter 70, New Hampshire Laws of 1871, entitled "An act to enable the city of Manchester to establish water-works," except as further extended an amount of $300,000 by laws of 1891, chapter 26; and $200,000 by laws of 1895, chapter 172.

SUMMARY OF CITY DEBT.

Amount of bonded debt January 1, 1912		$1,744,000.00
Amount of notes January 1, 1912		16,693.00
Bonds issued during year		205,000.00
Notes issued during year		12,850.00
Accrued interest on bonded debt, December 31, 1912		23,828.00
		$2,002,371.00
Amount of bonded debt paid in 1912	$120,000.00	
Amount of notes paid in 1912	16,693.00	
		136,693.00
Total indebtedness, December 31, 1912		$1,865,678.00

AVAILABLE ASSETS.

Net cash on hand December 31, 1912	$139,780.42
Taxes uncollected, list of 1912	144,059.69
Stock of Suncook Valley Railroad, estimated value	20,000.00
Sinking fund December 31, 1911	739,192.05
	$1,043,032.16

STATEMENT OF THE ANNUAL INTEREST CHARGE ON THE BONDED DEBT.

Year.	Six percent water bonds.	Four percent water bonds.	Four and a half and five percent water bonds.	Three and one-half and five percent cemetery bonds.	Six percent to fund debt.	Four percent to build McGregor bridge.	Three and one-half and four percent to fund debt.	Four perct. improvement bonds and 3 1-2 percent city bonds.	3 1-2 and four percent school bonds and Granite bridge.	Total of annual interest.
1890..	$27,000	$6,000	.....	$623.75	$7,000	$2,400	$6,200	.....	.....	$49,423.75
1891..	4,000	8,000	.....	813.92	7,200	2,400	6,200	.....	.....	48,613.92
1892..	18,000	12,000	.....	1,000.00	7,200	2,400	6,200	.....	.....	46,800.00
1893..	18,000	12,000	.....	1,041.66	7,200	2,400	6,200	.....	.....	46,841.66
1894..	18,000	14,000	$9,500	1,550.00	.....	2,400	6,200	$8,000	.....	59,650.00
1895..	18,000	16,000	9,500	1,812.50	.....	2,400	6,200	12,000	$4,800	68,712.50
1896..	12,000	20,000	9,500	2,112.50	.....	2,400	6,200	16,000	14,400	82,612.50
1897..	9,000	22,000	9,500	2,500.00	.....	2,400	6,200	16,000	13,000	80,600.00
1898..	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	16,000	13,000	79,000.00
1899..	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	19,500	11,400	81,500.00
1900..	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	19,500	10,520	80,620.00
1901..	6,000	24,000	9,500	2,500.00	.....	2,400	6,200	19,500	8,800	78,900.00
1902..	3,000	24,000	9,500	2,500.00	.....	2,400	6,200	20,850	8,200	76,650.00
1903..	.....	24,000	9,500	2,500.00	.....	2,400	6,200	22,300	6,400	73,300.00
1904..	.....	24,000	9,500	2,500.00	.....	2,400	6,200	22,300	6,000	72,900.00
1905..	.....	24,000	9,500	2,500.00	.....	2,400	4,200	24,050	5,600	72,250.00
1906..	.....	24,000	9,500	2,500.00	.....	2,400	4,200	24,050	5,200	71,850.00
1907..	.....	20,000	9,500	2,500.00	.....	2,400	4,200	24,050	4,800	67,450.00
1908..	.....	20,000	9,500	2,500.00	.....	2,400	4,200	24,050	4,400	67,050.00
1909..	.....	20,000	9,500	2,500.00	.....	2,400	4,200	23,050	4,000	65,650.00
1910..	.....	20,000	9,500	2,500.00	.....	2,400	4,200	22,650	4,000	65,250.00
1911..	.....	20,000	9,500	2,500.00	.....	2,400	2,200	29,700	6,805	73,105.00
1912..	.....	16,000	9,500	3,235.00	.....	.....	7,700	24,765	6,805	68,005.00

Valuation of Real Estate Owned by the City.

SCHOOLS.

High school, Beech street, corner Lowell:		
Building	$200,000.00	
59,400 square feet of land	28,700.00	
		$228,700.00
Franklin-street school, Franklin street, corner Pleasant:		
Building	$16,000.00	
19,200 square feet of land	19,200.00	
		$35,200.00
Spring-street school, Spring street:		
Building	$13,000.00	
11,551 square feet of land	11,551.00	
		$24,551.00
Lincoln-street school, Lincoln street, corner Merrimack:		
Building	$50,000.00	
40,000 square feet of land	10,000.00	
		$60,000.00
Ash-street school, Ash street, corner Bridge:		
Building	$55,000.00	
57,537 square feet of land	28,765.00	
		$83,765.00
Main-street school, North Main street, West Manchester:		
Building	$15,000.00	
40,293.4 square feet of land	16,000.00	
		$31,000.00
Webster-street school, Webster street:		
Building	$45,000.00	
55,714¾ square feet of land	16,710.00	
		$61,710.00
Lowell-street school, Lowell street, corner Chestnut:		
Building	$500.00	
9,650 square feet of land	9,650.00	
		$10,150.00
Maynard school, Merrimack street, corner Union:		
Building	$31,000.00	
22,000 square feet of land	9,000.00	
		$40,000.00
Parker school, South Main street, West Manchester:		
Building	$25,000.00	
19,402 square feet of land	3,880.00	
		$28,880.00

Bakersville school, Elm street, south:		
Building	$18,000.00	
23,937 square feet of land	4,780.00	
		$22,780.00
Stark District school, River road, north:		
Building	$1,500.00	
43,560 square feet of land	500.00	
		$2,000.00
Amoskeag school, Front street, Amoskeag:		
Building	$9,000.00	
6,000 square feet of land	900.00	
		$9,900.00
Rimmon school, corner Amory and Dubuque streets:		
Building	$27,000.00	
16,600 square feet of land	3,320.00	
		$30,320.00
Goffe's Falls school, Goffe's Falls:		
Building	$14,000.00	
47,916 square feet of land	500.00	
		$14,500.00
Harvey District school, Nutt road:		
Building	$2,000.00	
21,780 square feet of land	100.00	
		$2,100.00
Webster Mills school, Webster Mills:		
Building	$400.00	
5,445 square feet of land	100.00	
		$500.00
Youngsville school, Youngsville:		
Building	$10,000.00	
41,915 square feet of land	500.00	
		$10,500.00
Mosquito Pond school, Mosquito Pond:		
Building	$400.00	
10,890 square feet of land	100.00	
		$500.00
Pearl-street school:		
Building	$20,000.00	
21,331 square feet of land	4,260.00	
		$24,260.00
Varney school, Bowman street, corner Mast, West Manchester:		
Building	$43,750.00	
57,218 square feet of land	8,560.00	
		$52,310.00
Hallsville school, Jewett street, corner Young, East Manchester:		
Building	$47,800.00	
44,000 square feet of land	4,400.00	
		$52,200.00

Straw school, Chestnut street, corner Harrison:		
Building	$30,000.00	
32,400 square feet of land	16,200.00	
		$46,200.00
New Wilson school, Wilson, Cedar, and Auburn streets:		
Building	$40,000.00	
41,600 square feet of land	6,240.00	
		$46,240.00
South Manchester school, Titus avenue:		
Building	$12,000.00	
48,400 square feet of land	2,400.00	
		$14,400.00
Chandler school, Concord street, corner Ashland:		
Building	$40,000.00	
22,682 square feet of land	5,540.00	
		$45,540.00
Brown school, corner Amory, Alsace, and Joliette streets:		
Building	$30,000.00	
39,250 square feet of land	7,300.00	
		$37,300.00
Total		$1,015,506.00

ENGINE-HOUSES.

Engine-house and stable, Central Station, Vine street:		
Building	$31,800.00	
12,635 square feet of land	25,250.00	
		$57,050.00
North Main-street engine-house, North Main street, West Manchester:		
Building	$20,000.00	
17,950 square feet of land	7,180.00	
		$27,180.00
Webster-street engine-house, Webster street, corner Chestnut:		
Building	$25,000.00	
8,510 square feet of land	2,650.00	
		$27,650.00
Merrimack engine-house, Lake avenue:		
Building	$20,000.00	
10,000 square feet of land	3,000.00	
		$23,000.00

Hosehouse and cottage, Maple street, corner East High:		
Building	$3,000.00	
10,370 square feet of land	3,100.00	
		$6,100.00
Engine-house, Rimmon and Amory streets, West Manchester:		
Building	$25,000.00	
6,000 square feet of land	1,200.00	
		$26,200.00
South Manchester hosehouse:		
Building	$3,000.00	
10,370 square feet of land	3,100.00	
		$6,100.00
Engine-house, Concord street, corner Weston:		
Building	$7,000.00	
15,000 square feet of land	1,500.00	
		$8,500.00
Hosehouse and wardroom, Somerville street:		
Building	$18,000.00	
10,527.75 square feet of land	1,580.00	
		$19,580.00
		$201,360.00

OTHER PUBLIC BUILDINGS AND LOTS.

City Library, Dean avenue, corner Franklin street:		
Building	$35,000.00	
15,000 square feet of land	30,000.00	
		$65,000.00
City Hall, Elm street, corner Market:		
Building	$40,000.00	
10,000 square feet of land	150,000.00	
		$190,000.00
City farm, Mammoth road:		
Building	$5,000.00	
21.73 acres, west Mammoth road	40,270.00	
91.87 acres, east Mammoth road	65,240.00	
		$110,510.00
Court house, Franklin street, corner West Merrimack:		
Building	$20,000.00	
19,000 square feet of land	38,000.00	
		$58,000.00
Battery building, Manchester street:		
Building	$15,000.00	
3,400 square feet of land	2,040.00	
		$17,040.00

Police station, Manchester street, corner Chestnut:		
Building	$40,000.00	
7,500 square feet of land	7,500.00	
		$47,500.00
Slayton lot, Manchester street:		
Police patrol stable	$4,000.00	
Building	300.00	
2,908 square feet of land	2,908.00	
		$7,208.00
City stable and other buildings, Franklin street:		
Building	$15,344.00	
14,656 square feet of land	14,656.00	
		$30,000.00
City yard, Lincoln, Hayward, Maple, and Valley streets:		
Buildings	$2,000.00	
231,000 square feet of land	25,410.00	
		$27,410.00
Police station, Clinton street, West Manchester:		
Building	$4,000.00	
3,600 square feet of land	720.00	
		$4,720.00
Ward 5 wardroom, Lake avenue:		
Building	$4,500.00	
3,000 square feet of land	450.00	
		$4,950.00
City stable, district No. 10		$1,200.00
City scales, Franklin street:		
Building		$300.00
Ward 2 wardroom, Blodget street:		
Building	$2,500.00	
9,000 square feet of land	4,500.00	
		$7,000.00
Hosehouse, Mammoth road:		
Building	$1,000.00	
28,580 square feet of land	2,850.00	
		$3,850.00
		$574,688.00

Personal Property Owned by the City.

Property in care city engineer	$1,350.00
chief engineer fire department	140,779.00
street & park commission (estimated)	32,336.67
superintendent of schools	55,441.25
city messenger	3,000.00

Property in care of chief of police and janitor	$7,250.00
trustees city library	30,000.00
superintendent of Pine Grove cemetery	2,246.87
superintendent of Valley cemetery	437.80
Stock in Suncook Valley Railroad, in care of city treasurer	20,000.00
Personal property in care city weigher	1,000.00
	$293,841.49
Uncollected taxes in 1912	144,059.69
Net cash in treasury December 31, 1912	139,780.42
	$283,840.11

Other Real and Personal Estate Owned by the City.

Soldiers' monument	$25,000.00
Amoskeag bridge over Merrimack river	25,000.00
Fountains and water-troughs on streets and commons	3,600.00
City tomb	10,000.00
McGregor bridge	100,000.00
Granite bridge	150,000.00
South Main-street bridge, over Piscataquog river	30,000.00
Second-street bridge, over Piscataquog river	55,000.00
Granite-street bridge, over B. & M. R. R.	6,000.00
Print-Works bridge, on Granite, over lower canal	15,000.00
Two bridges in highway, district No. 9	2,000.00
One bridge at Goffe's Falls	3,500.00
Expended on construction of sewers	1,240,000.00
Gravel lot, East Manchester	800.00
Gravel lot, Youngsville, 1 acre	500.00
Gravel lot, Goffstown, 2 acres	400.00
Lot, Spruce street, 5,750 square feet of land	340.00
Lot, Groux island, 5,000 square feet of land	20.00
Fountains and water-troughs	3,600.00
	$1,670,760.00

PARKS AND CEMETERIES.

Valley cemetery, 19.7 acres	$230,000.00
Pine Grove cemetery, Ursula chapel	16,000.00
Pine Grove cemetery, about 212.326 acres	425,000.00
Amoskeag cemetery, 1.23 acres	5,000.00
Stark park, 30 acres	60,000.00
Derryfield park, 76 acres	76,000.00
Concord common, 183,000 square feet of land	183,000.00
Tremont common, 98,065 square feet of land	49,000.00
Hanover common, 132,000 square feet of land	99,000.00

Park common, 157,800 square feet of land	$78,900.00
Merrimack common, 513,000 square feet of land	768,500.00
Wagner's park 429,250 square feet of land	6,430.00
Lafayette park, 90,500 square feet of land	45,200.00
Prout park, 223,601 square feet of land	22,300.00
East Side park, 19,363 square feet of land	5,000.00

WATER-WORKS.

Real estate and personal property of water-works, at cost price	$2,217,818.96

CITY PROPERTY OWNED.

Property owned by the city, being deeded to the city on sale for taxes:

20 acres land, Dunbarton road	$220.00
Lots 209 to 218, Mammoth Park, Fourth street	20.00
Lot Hapgood land	10.00
Lots 159, 160, 161, Woodlawn avenue	30.00
Lot 8, Boylston street	10.00
Lots 142, 143, Brewster street	20.00
Lot 79, Brunswick street	10.00
Lot 67, Brunswick street	10.00
Lot 29, Bowditch street	10.00
Lot 23, Glenwood plan, Boynton street	20.00
Lots 3, 4, Riverview plan, Brown avenue	165.00
Lots 29, 30, 31, Riverview plan, Belair street	155.00
Lot 46, Riverview plan, Belair street	10.00
Lot 47, Riverview plan, Belair street	10.00
Lots 72, 73, 74, 75 Riverview plan Westland avenue	66.00
Lot 102 Riverview plan, Harwich street	10.00
Lot 110, Riverview plan, Enfield street	10.00
Lots 220, 221, Riverview plan, Wolcott street	60.00
Lots 364, 365, Riverview plan, Edgemere street	45.00
Lots 15, 16, Lakeview Terrace, Groveland avenue	40.00
Lots 185, 186, Lakeview Terrace, Groveland avenue	24.00
Lot 22, Centennial street, Groux Island	20.00
Lot 30 Christopher street, Groux Island	20.00
Lot 63, Isabella street, Groux Island	20.00
Lot 73, Centennial street, Groux Island	20.00
Lot 6177, Clay street	475.00
Lot Cilley road	80.00
Lot 14, Young plan, Taylor street	176.00
Lot Taylor street	80.00
Lot 16, Page plan, Burlington street	25.00
Lots 288, 289, 290, Glenwood avenue	200.00
Lots 279, 280, Glenwood avenue	110.00
Lot 8, Orchard avenue	165.00

Lot 79, Myrtle avenue	$38.00
Lots 85, 86, Myrtle avenue	82.00
Lot 68 and part 69, Shasta street	100.00
Lot, Mystic street	180.00
Lot 65, Cody plan, Cody street	55.00
Lots 635 to 640, Hebert street	195.00
Lot 667, Lincoln street	40.00
Lot, Shasta street	100.00
Lot, Porter street	200.00
Lots 76, 77, Boutwell street	110.00
Lot 305, Mystic avenue	30.00
Lot, Wilson and Clay streets	275.00
Lots 73, 107, Ingalls street	110.00
Lots 13, 14, Blk. 17, Currier plan, Waltham street	20.00
Lot 11, Blk. C, Willow street	66.00
Land, Nutt road	35.00
Land, Nutt road	80.00
Lot 27, Derryfield Terrace, Mammoth road	66.00
Lot east of 316 Douglas street	330.00
Land Cemetery road, A	55.00
Land, Elm street, rear of the Beacon Bldg	220.00
Total	$4,733.00

RECAPITULATION.

Real estate owned by the city, schoolhouses	$1,015,506.00
Real estate owned by city	574,688.00
Real estate owned by city, engine-houses	201,360.00
Water-works at cost price	2,217,818.96
Personal property owned by the city	293,841.49
Uncollected taxes and cash	283,840.11
Other real and personal property	1,670,760.00
Parks and cemeteries	2,069,330.00
Real estate purchased for taxes	4,733.00
	$8,331,877.56

PROPERTY ACCOUNT.

Inventory of assets, December 31, 1912	$8,331,877.56
Inventory of assets, December 31, 1911	7,355,357.28
Gain in valuation	$976,520.28

Auditor's Office.

City hall building. Open from 9 to 12 A. M., 1.30 to 5 P. M.

In every bill presented to the city auditor for his approval, the following points will be considered and passed upon:

1. Is the subject matter of the bill under examination within the scope of the powers conferred by the legislature on the city government?

2. Is the bill certified by the party legally authorized to make the contract, or cause the expenditure to be made?

3. Has any appropriation been made to meet the expenditure, and is there a balance unexpended sufficient to pay this bill?

4. Are the number of articles in the bill, or the measurements, either of dimensions, quantities or weights, correctly and fully stated, and is the proof of the delivery to the city of the whole amount charged sufficient?

5. Is the price charged a fair market price, or is it so largely in excess as to require the attention of the city councils to be called to the same?

6. Is the bill written in a fair, legible hand, correctly cast, and on paper of sufficient length and width to admit of its proper backing and filing?

7. If the bill is in part payment of a contract, the date and the total amount of the contract, the amount already paid, the amount of the work not yet completed, and the percent retained, if any, should be stated in the bill.

8. Any other inquiries in matters of law and fact which affect the question of indebtedness before the auditor.

9. Approval, rejection or suspension for further information or correction as the circumstances of each case may require.

ARC AND TUNGSTEN ELECTRIC LIGHTS.

ARC AND TUNGSTEN ELECTRIC LIGHTS.

CIRCUIT No. 1.

Bridge and McGregor.
Main and McGregor.
South light in Eddy.
Monmouth and McGregor.
Marion and McGregor.
Wayne and McGregor.
Putnam and Main.
Wayne and Main.
Marion and Main.
Amory and Main.
Amory and Notre Dame avenue.
Coolidge avenue, near Kelley.
Coolidge avenue and Notre Dame avenue.
Coolidge avenue and Cartier.
Coolidge avenue, north of Bremer.
Bremer and Dubuque.
Kelley and Cartier.
Kelley and Rimmon.
Kelley and Hevey.
Kelley and Alsace.
Kelley and Boutwell.
Amory and Morgan.
Amory and Essex.
Amory and Alsace.
Amory, near Montgomery.
Amory and Amory extension.
Bow and Bartlett.
Wayne and Thornton.
Sullivan and Thornton.
Putnam and Bartlett.
Putnam, west of Rimmon.
Rimmon at 322.
Amory and Rimmon.
Amory and Cartier.
Amory and Dubuque.
Total—35.

CIRCUIT NO. 1.—TUNGSTENS.

McGregor bridge, No. 1.
McGregor bridge, No. 2.
McGregor bridge, No. 3.
McGregor bridge, No. 4.
McGregor bridge, No. 5.
McGregor bridge, No. 6.
McGregor bridge, No. 7.
Leggett court and Marion avenue.
Amory and Hevey.
Sullivan and Blucher.
Nicolet lane.
Somerset lane.
Wayne and Hevey.
Bremer and Jolliette.
Total—14.

CIRCUIT NO. 2.

Wayne and Notre Dame avenue.
Cartier, south of Wayne.
Wayne and Dubuque.
Putnam and Cartier.
Sullivan and Notre Dame avenue.
Sullivan and Main.
Adams and Notre Dame avenue.
Adams and Cartier.
Schuyler and Main.
Wilton and Main.
Gates and Dubuque.
Conant and Montgomery.
Blucher and Montgomery.
Conant and Cartier.
Conant and Rimmon.
Conant and Notre Dame avenue.
Douglas and Main.
Douglas and West.
Douglas and Barr.
Douglas and Railroad.
Granite and Green.
Granite and West.
Granite and Main.
Parker and West.
Ferry and Main.
Walker and Main.
Blaine and Main.

West Hancock and Main.
West Hancock and Dartmouth.
West Hancock and Second.
West Hancock and Wentworth.
Schiller and Second.
Wentworth and Bell.
Blaine and Second.
Blaine and Third.
School and Third.
Walker and Fourth.
Walker and Third.
Walker and Second.
Walker and Turner.
Ferry and Turner.
Ferry and Third.
Bath and Second.
Granite and Second.
School and Turner.
Granite bridge center.
Total—46.

CIRCUIT NO. 2.—TUNGSTENS.

Douglas and Douglas north back.
Douglas and Dover.
Wilton and Notre Dame avenue.
Douglas and Quincy.
Granite and Barr.
Granite and Quincy.
Granite and Winter.
Granite and Dover.
Parker, near West.
Wheelock, south of West Hancock.
Dartmouth and Frederick.
Second street, south of Cleveland.
Cleveland and Hiram.
Alley off School street.
Turner at Turner hall.
Douglas and Turner.
Conant and North Main.
Railroad and Sullivan.
Parker and Parker avenue.
Frederick and Second.
Cleveland between Third and Blaine.
School and Second.
Total—22.

CIRCUIT No. 3.

Elm and Kidder.
Elm west back, between Kidder and Hollis.
Elm and Lowell.
Elm and Manchester.
Granite and Franklin.
Granite south back and Canal.
Granite and Bedford.
Private way, Manchester corporation.
State, north of Granite.
Granite and State.
Granite bridge, east.
Granite bridge, west.
Winter and Parker.
Winter street, at 62.
Mast and Main.
Mast and Bowman.
Mast and Riddle.
Mast and New Mast road.
Carroll and Charlestown avenue.
Mast and Brock.
Mast and Forest.
New Mast road and D.
New Mast road and Wilkins.
Rockland avenue and Shirley.
Rockland avenue and Wilkins.
Bismarck and Sylvester.
Donald road and cemetery.
Milford and Donald.
Milford and Carroll.
Milford and Riddle.
Tilton place and Tilton.
Milford and Main.
Bowman at 173.
A at 73.
B and C.
Prince and B.
McDuffie and Huntress.
Boynton and Prince.
Boynton at 135.
Boynton and Grant.
Era and South Main.
South Main at 520.
Harvell and South Main.
A and South Main.
Total—44.

CIRCUIT No. 3.—TUNGSTENS.

Bowman and Marlboro.
State and Grove.
Mast at 272.
Canal at 66.
George at 51.
Williams at 76.
Milford and Williams.
Main and Frederick.
Milford and Bowman.
A and B.
Boynton and C.
Boynton and Allen.
Ferry and Fourth.
Donald, at St. Joseph's cemetery.
South Main and Second.
Sylvester and Avon.
Total—16.

CIRCUIT No. 4.

Canal and Cedar.
Franklin and Cedar.
Elm and Cedar.
Elm and Auburn.
Elm, opposite 385.
Elm and Green.
Elm and Valley.
Elm at railroad bridge.
Elm and Silver.
Elm and Brown avenue.
Brown avenue and Hancock.
Byron and Boston & Maine railroad.
Baker and Brown avenue.
Brown avenue and Westland avenue.
Elm, south of Baker.
Elm and Baker.
Elm and Shasta.
Elm and Elm avenue.
Welch avenue and Calef road.
Baker and Calef road.
Beech, near Gold.
Titus avenue and Beech.
Titus avenue and Highland school.
Mystic avenue and Union.
Mitchell and Beech.
Beech and Lawrence railroad.

Nutt road and Portsmouth railroad.
Nutt road and Willow.
Nutt road and Auger avenue.
Silver and Pine.
Valley and Pine.
Valley and Union.
Hayward and Union.
Silver and Union.
Hayward and Beech.
Silver and Beech.
Beech and Portsmouth railroad.
Nutt road and Beech.
Willow and Maple.
Total—39.

CIRCUIT NO. 4.—TUNGSTENS.

Kidder court.
Franklin and Auburn.
Valley, near Willow.
Merrill and Willow.
Hancock and Hamilton.
Hancock, near brewery.
Brown avenue and Byron.
Brown avenue and Shasta.
Baker and Lawrence railroad.
Calef road, at 214.
Calef road and Hillcrest avenue.
Calef road and Edgemere avenue.
Calef road and Mitchell.
Calef road and Titus avenue.
Pine Grove cemetery.
Calef road and Brown avenue.
Brown avenue, at 1744.
Brown avenue, at 2626.
Railroad street, Goffe's Falls.
Goffe's Falls depot.
Brown avenue and Railroad street.
Brown avenue, at 2743.
Brown avenue, at 2849.
Brown avenue, at 2869.
Brown avenue, at 2915.
Brown avenue, at 2956.
Brown avenue and Mill avenue.
Mill avenue.
Mill avenue at Caldwell's.
Brown avenue and Devonshire mills.
Londonderry road, off Brown avenue.

Brown avenue, opposite Londonderry road.
Brown avenue, at 3100.
South end Goffe's Falls school.
Shasta and Maple.
Willow road and Weston.
Willow road, at J. J. Connor's.
Willow road, at Heureux's.
Willow road, at Harvey's.
Willow road and Marshall's.
Willow road and Merrill.
Willow road and Harvey road.
Willow road and Mill road.
Willow road and Woodlawn avenue.
Willow road, at Dickey's.
Brown avenue, near Box 62.
Brown avenue and Hillcrest avenue.
Brown avenue south of Westland avenue.
Brown avenue and Mitchell.
Brown avenue, opposite J. H. Erskine's.
Brown avenue, north of cemetery entrance.
Brown avenue, at cemetery entrance.
Brown avenue and Street Railway private way.
Plumer and Union.
Willow road, at P. A. Lehan's.
Willow road at J. T. Lavasser's.
Total—56.

CIRCUIT NO. 5.

Dean avenue and Hampshire lane.
Merrimack and Franklin.
Pleasant and Elm.
Depot and Franklin.
Elm and Spruce.
Elm east back and Spruce south back.
Spruce and Fifth Avenue lane.
Cedar and Chestnut.
Auburn and Chestnut.
Grove and Pine.
Green and Pine.
Summer and Pine.
Auburn and Pine.
Cedar and Pine.
Spruce and Pine.
Cedar and Union.
Auburn and Union.
Summer and Union.
Grove and Union.

Green and Union.
Valley and Beech.
Green and Beech.
Grove and Beech.
Auburn and Beech.
Cedar and Beech.
Cedar and Maple.
Auburn and Maple.
Auburn and Lincoln.
Cedar and Lincoln.
Auburn and Wilson.
Auburn and Hall.
Summer and Hall.
Green and Wilson.
Valley and Wilson.
Prescott and Wilson.
Harvard and Wilson.
Lincoln and Portsmouth railroad.
Hayward and Maple.
Silver and Lincoln.
Silver and Wilson.
Somerville and Wilson.
Somerville and Hall.
Harvard and Hall.
Valley and Hall.
Valley and Belmont.
Silver and Belmont.
Total—46.

CIRCUIT NO. 5.—TUNGSTENS.

Spring street.
Cedar and Wilson east back.
Valley and Lincoln.
Hayward and Lincoln.
Wilson, near Hayward.
Harvard and Maple.
Valley and Maple.
Somerville and Lincoln.
Wilson and Clay.
Belmont and Hayward.
Bell and Union.
Bell and Pine.
Total—12.

CIRCUIT NO. 6.

Spring and Hampshire lane.
Mechanic and Hampshire lane.
Stark street.

Market and Franklin.
Elm and Depot.
Massabesic and Belmont.
Massabesic and Old Falls road.
Summer and Dearborn.
Summer and Belmont.
Grove and Belmont.
Massabesic and Hospital avenue.
Dearborn and Taylor.
Valley and Taylor.
Young and Taylor.
Somerville and Taylor.
Dix and Taylor.
Cilley road and Taylor.
Vinton and Taylor.
Cilley road and Jewett.
Brooklyn avenue.
Somerville and Jewett.
Somerville and Cypress.
Young and Ainsworth avenue.
Hayward and Cypress.
Valley and Cypress.
Hayward and Riley avenue.
Valley and Jewett.
Massabesic and Jewett.
Massabesic and Cypress.
Massabesic and Dickey lane.
Massabesic and J. Hall road.
J. Hall road and Portsmouth railroad.
Mammoth road and Candia road.
Mammoth road and Young road.
Candia road and Woodbine avenue.
Page and Portsmouth railroad.
Total—36.

CIRCUIT NO. 6.—TUNGSTENS.

Market at 35.
Barry avenue and Spruce south back.
Chase avenue and Hayes avenue.
Cypress and Hospital avenue.
Massabesic and Taylor.
Grove, near Taylor.
Taylor, near Portsmouth railroad.
Taylor, at 181.
Spring View and Somerville.
Young, near Cypress.
Valley, at 869.

Foster avenue, at 20.
Jewett and Young.
Jewett, opposite 223.
Jewett and Merrill.
Riley avenue, opposite 74.
Prout avenue, at 91.
Oakland avenue and Mammoth road.
Knowlton and Hayward.
Mammoth road and Cilley road.
Island Pond road and Downing.
Island Pond road and Coleman.
Island Pond road and Dickey road.
Mammoth road and Island Pond road.
Southeast corner reservoir.
Cohas avenue and Dickey road.
Mammoth road and Cohas.
Mammoth road, at Lovering's.
Mammoth road and Moorsville road.
Mammoth road and Derry road.
Derry road and Dickey road.
Derry road and Cross road.
Derry road and L. Paige's.
Derry road and Corning road.
Corning road, at M. Paige's.
Revere street and Longwood avenue.
Oakland avenue and Woodbine avenue.
Oakland avenue and Woodland avenue.
Candia road, at 202.
Candia road and Woodland avenue.
Candia road, at 331.
Candia road and Cody avenue.
Candia road and Platts avenue.
Candia road and Paige street.
Glenwood avenue and Loveren street.
Candia road and Loveren street.
Candia road, at 725.
Candia road, at Annis's.
Candia road, at 937.
Candia road, at 991.
Candia road, at 1035.
Candia road and Proctor road.
Proctor road.
Lake Shore road and Miss Proctor's.
Lake Shore road and Proctor road.
Lake Shore road, at J. H. Paige's.
Lake Shore road, at pumping station.
Lake Shore road, at W. N. Moulton's.

Lake Shore road, at Frank Gagick's.
Lake Shore road, at W. F. Paige's.
Lake Shore road and Portsmouth railroad.
Hanover, at 1150.
Hanover and Proctor road.
Hanover, at 1268.
Hanover and Broadway avenue.
Broadway avenue at Ed Evers'.
Broadway avenue and Sherburne.
Smith corner.
Sherburne and Candia road.
Candia road, at Levi Proctor's.
Candia road, at J. H. Cram's.
Candia road, at C. E. Crombie's.
Candia road and Lake Shore road.
Candia road, at G. D. Sanborn's.
Candia road, at Frank Fox's.
Candia road and Turnpike road.
Turnpike road, No. 1.
Turnpike road, No. 2.
Turnpike road, No. 3.
Turnpike road and Bald Hill road.
Jewett, at 202.
Hall avenue and Taylor.
Total—82.

CIRCUIT No. 7.

Langdon and Canal.
Dean and Canal.
Hollis and Canal.
Kidder and Boyden.
Bridge and Canal.
Bridge and Arkwright.
Charles street.
Spring and Canal.
Water street.
Elm and Water.
Elm and Amherst.
Mechanic and Canal.
Stark and Canal.
Market and Canal.
Middle and Canal.
Merrimack and Canal.
Middle and Franklin west back.
Middle and Franklin.
Merrimack and Elm.
Merrimack and Franklin west back.

Pleasant and Franklin west back.
Pleasant and Franklin.
Central and Elm.
Central and Franklin.
West Central, at 74.
Central and Canal.
Central and Bedford.
Depot and Canal.
Granite and Canal.
Central and Chestnut.
Lake avenue and Chestnut.
Park common.
Lake avenue and Union.
Spruce and Union.
Spruce and Beech.
Spruce and Maple.
Spruce and Lincoln.
Spruce and Wilson.
Spruce and Hall.
Spruce and Massabesic.
Market and Elm.
Total—41.

CIRCUIT NO. 7.—TUNGSTENS.

Canal and Brook.
Private way off Hollis.
Mechanic street.
Stark and Elm west back.
Pleasant street, west light.
Pleasant street, east light.
Central south back and Elm east back.
Barry avenue and Spruce north back.
Total—8.

CIRCUIT NO. 8.

Hollis, west of Elm.
Bridge and Elm.
Hanover and Nutfield lane.
Elm and Market.
Merrimack common.
Merrimack and Chestnut.
Laurel and Laurel avenue.
Laurel and Pine.
Central and Pine.
Lake avenue and Pine.
Central and Union.
Laurel and Union.
Laurel and Beech.

Central and Beech.
Lake avenue and Beech.
Lake avenue and Maple.
Central and Maple.
Laurel and Maple.
Laurel and Lincoln.
Central and Lincoln.
Lake avenue and Lincoln.
Lake avenue and Wilson.
Central and Wilson.
Laurel and Wilson.
Massabesic and Lake avenue.
Lake avenue and Belmont.
Lake avenue and Beacon.
Spruce and Old Falls road.
Spruce and Beacon.
Spruce and Cypress.
Lake avenue, west of Cass.
Lake avenue and Canton.
Spruce and Canton.
Auburn and Canton.
Spruce and Kenney.
Lake avenue and Kenney.
Hanover and Grant.
Mammoth road and Isolation hospital.
Hanover and J. Hall road.
Lake avenue and J. Hall road.
Lake avenue and Mammoth road.
Mammoth road and Nelson.
Hanover and Lake avenue.
Hanover, at 893.
Hanover and Paige.
Total—45.

CIRCUIT NO. 8.—TUNGSTENS.

Monadnock and Nutfield lanes.
Merrimack common, north walk.
Merrimack common, east walk.
Nelson and Jones.
Benton and Jones.
Benton and Mammoth road.
Auburn and J. Hall road.
Hanover and Gertrude.
Franklin Willey place.
Bridge and Elm east back.
Derryfield and Nutfield lanes.
Londonderry and Nutfield lanes.

Laurel between Lincoln and Wilson.
Hanover, west of Grant.
Total—14.

CIRCUIT NO. 9.

Elm and Orange.
Elm west back and Winter place.
Kidder and Whitney.
Washington and Church.
Nutfield lane at C. F.
Hanover and Chestnut.
Manchester and Chestnut.
Manchester and Pine.
Merrimack and Pine.
Merrimack and Union.
Merrimack south back and Union.
Manchester and Union.
Manchester and Beech.
Merrimack and Beech.
Merrimack and Maple.
Manchester and Maple.
Hanover and Maple.
Amherst and Lincoln.
Hanover and Lincoln.
Manchester and Lincoln.
Merrimack and Lincoln.
Merrimack and Lincoln.
Merrimack and Wilson.
Manchester and Wilson.
Hanover and Ashland.
Amherst and Ashland.
Manchester and Hall.
Merrimack and Hall.
Laurel and Hall.
Central and Hall.
Laurel and Belmont.
Merrimack and Belmont.
Laurel and Milton.
Central and Milton.
Central, west of Cass.
Laurel and Beacon.
Laurel and Cass.
Merrimack and Beacon.
Manchester and Milton.
Hanover and Beacon.
Amherst and Milton.
Amherst and Hubbard.

Amherst and Alfred.
Hanover and Highland.
Hanover and Alfred.
Lake avenue and Cass.
Total—45.

CIRCUIT No. 9.—TUNGSTENS.

Hanover, between Pine and Union.
Laurel, at 427.
Central and Belmont.
Manchester and Belmont.
Merrimack and Cass.
Manchester, at 387.
Merrimack, at 425.
Merrimack, at 391.
Merrimack, at 328.
Merrimack, at 278.
Merrimack, at 228.
Manchester, at 307.
Hanover, at 394.
Chester, at 16.
Amherst, at 437.
Amherst and Belmont.
Amherst and Beacon.
Total—17.

CIRCUIT No. 10

Hanover and East High.
Nutfield and Seneca lanes.
Concord and Vine.
Amherst and Vine.
Concord common, west.
Concord common, east.
Amherst and Chestnut.
Concord and Chestnut.
Lowell and Pine.
Concord and Pine.
Amherst and Pine.
Hanover and Pine.
Hanover and Union.
Amherst and Union.
Amherst, at The Amherst
Concord and Union.
Lowell and Union.
Lowell and Walnut.
Concord and Walnut
Hanover common.

Hanover and Beech.
Amherst and Beech.
Concord and Beech.
Lowell and Beech.
Lowell and Ash.
Concord and Ash.
Amherst and Ash.
Amherst and Maple.
Concord and Maple.
Lowell and Nashua.
East High and Nashua.
East High and Malvern.
East High and Jane.
East High and Ashland.
Lowell and Malvern.
Amherst and Dutton.
Concord and Dutton.
Concord and Derry.
Concord and Ashland.
Lowell and Ashland.
Lowell and Belmont.
East High and Hall.
Lowell and Hall.
Lowell and Hall.
Concord and Hall.
Amherst and Hall.
Hanover and Hall.
Hanover and Belmont.
Total—47.

CIRCUIT NO. 10.—TUNGSTENS.

Hanover, at 304.
Concord and Beacon.
Concord and Belmont.
Lowell and Beacon.
Lowell and South.
Maple and East High.
Hanover, between Union and Pine.
Amherst and Walnut.
Total—8.

CIRCUIT NO. 11.

Dean and Elm.
Myrtle and Elm.
Myrtle and Chestnut.
Pearl and Chestnut.
Pearl and Elm east back.
Bridge and Birch.

Bridge and Chestnut.
High and Chestnut.
Lowell and Chestnut.
Lowell and Birch.
High and Pine.
Tremont common.
Bridge and Pine.
Pearl and Pine.
Orange and Pine.
Myrtle and Pine.
Myrtle and Union.
Orange and Union.
Pearl and Union.
Bridge and Union.
High and Union.
Bridge and Walnut.
Pearl and Walnut.
Myrtle and Walnut.
Pearl and Beech.
Bridge and Beech.
Bridge and Ash.
Pearl and Ash.
Bridge and Maple.
Bridge and Nashua.
Bridge and Russell.
Arlington and Russell.
Arlington and Warren.
Bridge and Linden.
Arlington and Ashland.
East High and Buzzell.
Bridge and Hall.
Bridge and Belmont.
East High and Belmont.
East High and Beacon.
Bridge and Weston.
Concord and Weston.
Derryfield park.
Bridge and Mammoth road.
Old Bridge and Mammoth road.
Total—45.

CIRCUIT NO. 11.—TUNGSTENS.

Bridge and Beacon.
Highland and East High.
Bridge and Highland.
Bridge, east of Highland.
Bridge, west of Mammoth road.

Bridge and Buzzell.
Arlington and Morrison.
Arlington and Maple.
Pearl and Maple.
Ash, at 78.
Beech, at 593.
Walnut, at 86.
Orange and Walnut.
Orange and Clarke avenue.
Orange and Chestnut.
Total—15.

CIRCUIT NO. 12.

Brook and Elm.
Langdon and Elm west back.
Harrison and Elm.
Prospect and Elm east back.
Prospect and Chestnut.
Harrison and Chestnut.
Harrison and Pine.
Harrison and Hazel.
Prospect and Pine.
Prospect and Union.
Harrison and Union.
Harrison and Walnut.
Brook and Walnut.
Brook and Beech.
Harrison and Beech.
Prospect and Beech.
Myrtle and Beech.
Orange and Ash.
Prospect and Ash.
Harrison and Ash.
Brook and Maple.
Harrison and Maple.
Prospect and Maple.
Myrtle and Maple.
Orange and Maple.
Pearl and Oak.
Orange and Oak.
Prospect and Oak.
Harrison and Oak.
Harrison and Russell.
Prospect and Russell.
Myrtle and Russell.
Orange and Russell.
Pearl and Russell.

Pearl and Linden.
Orange and Linden.
Myrtle and Linden.
Prospect and Linden.
Harrison, at 329.
Prospect and Hall.
Myrtle, at 350.
Orange and Hall.
Myrtle and Belmont.
Pearl and Belmont.
Mead and Hall.
Pearl and Morrison.
Total—46.

CIRCUIT NO. 12.—TUNGSTENS.

Pearl and Ashland.
Rear Pearl street school.
Brook and Ash.
Orange and Beech.
Albert and Harrison.
Prospect and Walnut.
Myrtle and Oak.
Harrison and Linden.
Total—8.

CIRCUIT NO. 13.

Sagamore and Elm.
Pennacook and Elm.
Blodget and Elm east back.
Brook and Chestnut.
Pennacook and Chestnut.
Salmon and Chestnut.
North and Pine.
Salmon and Pine.
Sagamore and Pine.
Pennacook and Pine.
Blodget and Pine.
Brook and Pine.
Brook and Hazel.
Brook and Union.
Blodget and Union.
Pennacook and Union.
Salmon and Union.
North and Union.
Liberty street.
Appleton and Union.
Clarke and Union.
Ray, between Appleton and Clarke.

Union, at 1028.
Carpenter and Union.
Trenton and Union.
Campbell and Union.
Whitford and Union.
Arrah, at 38.
Webster and Walnut.
North and Walnut.
Salmon and Walnut.
Sagamore and Walnut.
Blodget and Walnut.
Blodget and Beech.
Sagamore and Beech.
Salmon and Beech.
North and Beech.
Webster and Beech.
Blodget and Ash.
Sagamore and Maple.
Sagamore and Oak.
Blodget and Oak.
Blodget and Russell.
Sagamore and Smith road.
Sagamore and Russell.
Smith road and Webster.
Total—46.

CIRCUIT NO. 13.—TUNGSTENS.

Sagamore and Union.
Sagamore and Linden.
Chestnut and Blodget.
Chestnut and Sagamore.
Webster and Liberty.
North and Liberty.
Appleton and Ray.
Webster and Union.
Salmon and Ash.
South road between Sagamore and Kennard road.
South road and Kennard road.
Total city lights—11.

CIRCUIT NO. 14.

Pennacook and Canal.
Salmon and Canal.
Amoskeag bridge, east.
Amoskeag bridge, west.
Amoskeag and First.
North light in Eddy.
Amoskeag and Front.

Goffstown road and Front.
Goffstown road and Omega.
Goffstown road and Taggart.
Omega, at 85.
Front, at 367.
Front and Stearns lane.
Front and Dunbarton road.
Dunbarton road, at 158.
North and River road.
Webster and River road.
Munroe and River road.
Clarke and River road.
Otis and River road.
Park avenue and River road.
Park avenue and Crown.
Rowell and River road.
Trenton and Elm.
Carpenter and Elm.
Thayer and Elm.
Clarke and Elm.
Elm, at 1966.
Appleton and Elm.
Webster and Elm.
North and Elm.
Salmon and Elm.
Salmon and Bay.
North and Bay.
North and Chestnut.
Webster and Chestnut.
Appleton and Chestnut.
Chestnut, at 855.
Carpenter and Chestnut.
Webster and Pine.
Appleton and North Adams.
North Adams, at 63.
Clarke and North Adams.
Total—43.

CIRCUIT NO. 14.--TUNGSTENS.

Elm, near Rowell.
Trenton and Ray.
Bay, at 299.
Webster and Bay.
Chestnut, at 764.
Chestnut, at 916.
Chestnut, at 944.
Chestnut and Clarke.

Salmon, west of Elm.
Second and Mill, Amoskeag.
Bay, near North.
Appleton, east of Elm.
Waldo and Everett.
Stark park, south of middle entrance.
River road, at C. E. Rowell's.
River road, at C. E. Quimby's.
Thayer and River road.
Munroe, west of Elm.
Appleton, west of Elm.
West North and Chandler.
West Webster and Chandler.
Total—21.

TOTAL.

Arcs, 603. Tungstens, 304.

REPORT

OF THE

BOARD OF WATER COMMISSIONERS.

IN MEMORIAM.

Charles K. Walker, Superintendent of the Water-Works for thirty-seven years, died at his home in West Manchester September 9, 1912.

Mr. Walker was born in Bedford on July 18, 1830, received instruction in the district schools, and when a boy took up civil engineering. He was employed in the survey for the Concord & Montreal, Wilton, New York & Erie, Marietta & Cincinnati, and other railroads. When the Manchester Water-Works was completed in 1875 he was elected Superintendent and filled this position until April 1, 1912.

The estimate placed upon his services by the Board of Water Commissioners is shown by the following resolutions, which were passed at the time of his retirement:

"WHEREAS, the resignation of Charles K. Walker from the office of Superintendent of the Water-Works, a position which he has filled with uniform ability and faithfulness for a period of thirty-seven years, affords us an opportunity to express the esteem in which we hold him, also our appreciation of his long and valued services; therefore be it

"*Resolved*, That we, the members of the Board of Water Commissioners of the City of Manchester, N. H., take pleasure in placing upon the records of the Department our high estimation of his fidelity, loyalty, and absolute integrity in the conduct of the affairs of the Department.

"The period of his service has been one of constant growth and expansion, but throughout it all Mr. Walker has been equal to every ordeal and emergency, and has never failed to meet the requirements of his position. In his retirement he leaves behind a record of efficiency and duty well performed which has few if any equals in the municipal service of any community, and we congratulate him on his untarnished career and his ability to at this time retire to the quietude and comforts of his own fireside, carrying with him as he does the regard and good wishes of every member of the board."

IN MEMORIAM.

William Corey, who in 1892 was elected a member of the Board of Water Commissioners to fill the vacancy caused by the death of Alpheus Gay, died August 23, 1912, following an illness of but a few hours. Mr. Corey was born in Stanbridge, Que., January 31, 1841, and becoming interested in the manufacture of needles during his youth, came to Manchester in 1868 in order to extend the field of his operations. His business prospered, and in addition to the manufacture of needles he became largely interested in real estate, and in the raising of horses, and his success was pronounced along all lines to which he devoted his talents. In addition to serving as a member of this Board for twelve years he had represented Ward 3 as a member of the Board of Mayor and Aldermen, was his party's candidate for mayor in 1888, held membership in both the Derryfield and Calumet Clubs, and in the Masonic and Knights of Pythias fraternities. He caused to be erected some of the city's most notable residential blocks, and many dwelling houses. The value placed upon his services by the Water Commissioners was given expression in the passage of the following resolutions:

WHEREAS, in view of the loss which we as a body, and the city as a whole, have sustained in the death of our associate of many years, William Corey; therefore, be it

Resolved, That it is but a just tribute to the memory of William Corey to spread upon our records the fact that he was a most useful member of this Board, ever zealous and loyal in rendering service, a man of ripe and sound judgment, who gave freely of his abilities for the benefit of the city.

Resolved, That this heartfelt expression of our esteem and estimate of his career be spread upon the records of this Board, and a copy be forwarded to the widow.

MANCHESTER WATER BOARD, 1912.

President.

CHARLES H. MANNING.

Members of the Board.

EDWARD C. SMITH, *Mayor, ex officio.*

CHARLES M. FLOYD.....Term expires January, 1914
PERRY H. DOW.....Term expires January, 1915
EDGAR J. KNOWLTON.....Term expires January, 1916
WALTER G. AFRICA.....Term expires January, 1917
ROBERT E. MCKEAN.....Term expires January, 1918
CHARLES H. MANNING.....Term expires January, 1919

EDGAR J. KNOWLTON, *Clerk.*

Superintendent of Works.

JAMES H. MENDELL.

Water Registrar.

JOHN L. WADE.

COMMISSIONERS' REPORT.

To the Honorable City Councils of the City of Manchester, N. H.:

GENTLEMEN:—The Board of Water Commissioners herewith submit their forty-first annual report covering the year ending December 31, 1912; also the report of the Registrar, and of the Superintendent. To the report of the Registrar and of the Superintendent you are referred for special information as to the financial condition of the department, and for a detailed statement of the work performed during the year.

Mr. Charles K. Walker was the first Superintendent, having been elected March 1, 1875; resigned April 1, 1912, after serving thirty-seven years, and died September 9, 1912.

Mr. A. E. Stearns, the oldest employee of the Water-Works Department, began his labors with the engineers, making the first surveys in the fall of 1871, and had charge of building the low-power reservoir and laying the connecting mains. After the works were completed he was elected to the position of Water Registrar, serving the Board in this capacity until his retirement, April 1 of this year. He was also clerk of the Board for many years.

Mr. E. J. Knowlton was elected clerk of the Board December 1, 1911, and Mr. J. L. Wade, who has been in the Water-Works office for nineteen years, was advanced to Water Registrar.

Mr. William Corey, who had been for several years one of the valued members of the Board, died August 24, 1912. Mr. Walter G. Africa was elected to fill the vacancy.

The bonded indebtedness of this department is five hundred thousand dollars ($500,000), as follows:

Issued August 1, 1893, rate 5%, due August 1, 1913.....	$100,000.00
Issued November 1, 1893, rate 4½%, due November 1, 1913	100,000.00
Issued October 1, 1894, rate 4%, due October 1, 1914.....	50,000.00
Issued July 1, 1895, rate 4%, due July 1, 1915.....	100,000.00
Issued December 1, 1895, rate 4%, due December 16, 1915..	50,000.00
Issued January 1, 1897, rate 4%, due January 1, 1917.....	100,000.00
	$500,000.00

It may be fitting at this time to look backward over the years since the Water-Works was established and set forth what has been accomplished during that period.

The City Councils appropriated for the construction of the Water-Works the following sums:

August 1, 1871	$400,000.00
May 6, 1873	60,000.00
July 21, 1873	90,000.00
March 17, 1874	50,000.00
	$600,000.00

The cost of construction, including preliminary surveys for all the sources of supply examined, but not including service pipes and interest, was $614,009.83 to the fall of 1874.

The appropriations for construction of the works up to this time were $600,000.00 and the moneys collected for water rents and for materials sold and paid over to the City Treasurer were $33,512.64.

The expenditures for service pipes laid, for meters and operating expenses were $20,028.75.

The interest and discounts amounted to $40,678.51.

The expenditures for lands and labors on new highways, and transferred to highway account were $14,000.53.

The work was begun in 1871 and the pumps were started July 4, 1874. At that time there were 23.1 miles of main, 172 gates, 215 hydrants, and 625 service pipes. These were supplied from July 4 to September 24, when the new reservoir was ready for use, from the distribution pipes which were connected with the Amoskeag Company's reservoir.

The low power city reservoir is forty-five feet higher than the surface of the Amoskeag Company's reservoir. All of the pumping was done from the low power station by two R. D. Wood turbine driven pumps, and the record for the first month shows that there was pumped daily 998,295 gallons. The population in the census of 1870 was given as 23,509, and in all probability it was not over 25,000 in 1874.

These pumps were sufficient to supply the city with water until the year 1886, when two more pumps built by the Davidson Steam Pump Company of Brooklyn, N. Y., were installed. These pumps were started in December, 1886, and the record for the first full month shows that there was pumped 47,023,704 gallons.

In 1892 the water pumps were found insufficient to supply the growth of the city, and work was begun on the high power station at Massabesic, and completed with reservoir and mains in 1894. At this station was installed two steam Worthington high duty pumps with a capacity of 3,000,000 gallons per day, which pumped to a reservoir built on Oak Hill near the Weston Observatory, and at that time the service was divided, the high power station taking the north end and the high locations in the city.

In 1903 it was found necessary to increase the capacity at this station and one Snow pump was installed, with a daily capacity of 6,000,000 gallons.

This station with its present equipment is able to supply both the low and the high power reservoirs at any time in case of accident or repairs at the low service station.

In 1908 the power capacity was increased by installing two new Manning boilers of a much larger size than the old boilers.

In 1910 there was an addition built at the low power station and a De Laval electric pump installed for the purpose of saving water when the lake was low. The power for this pump is supplied by the Manchester Traction, Light and Power Company. This equipment is all in good working order and should be sufficient for the need of the city for several years.

While the meter rates have been changed several times, it is a singular coincidence that they were the same in the first report as they are at the present time, not less than $8.00 per annum.

The past year has been a very busy one for the department. The old wooden penstock at the low power station has been replaced with a new steel one and a new concrete dam with copper wire screens and a new gate-house. The old 20″ cement-lined pipe leading from the station to the reservoir has been replaced with a new 24″ cast-iron pipe, a distance of 7,187 feet, at a total expense of $23,989.12, less the cost of pipe which was bought in 1911. We have also laid, of different sizes, 6.192 miles of supply mains and 7086.6 feet of new services and 4289.1 of services relaid.

All services laid now are 1″ lead-lined pipe.

While the city has increased largely in population in the last ten years the Water Department has more than kept pace with the growth.

It has been the policy of the commissioners to buy all of the land around the lake shore from time to time, as it could be purchased at a reasonable figure, and the city owns today in land and water rights—

Acres around the lake	1769.34
Land covered by lake	2350.00
Total acreage	4119.34

This is 82% of the lake shore.

Total cost of land and water rights, $453.048.26.

Respectfully submitted,

CHARLES H. MANNING, *Chairman*,
CHARLES M. FLOYD,
PERRY H. DOW,
EDGAR J. KNOWLTON, *Clerk*,
WALTER G. AFRICA,
ROBERT E. MCKEAN,
EDWARD C. SMITH, *Mayor, ex officio*,
Water Board.

REPORT OF THE WATER REGISTRAR.

City of Manchester, December 31, 1912.

To the Board of Water Commissioners:

Gentlemen:—I herewith present to you a detailed statement of the receipts and expenditures of the Water-Works Department for the year ending December 31, 1912.

Receipts.

Amount on hand December 31, 1911			$73,474.45
Received for water by rate	$16,756.93		
Received for water by meter	103,517.55		
Received for building purposes	813.40		
Received for fines	430.25		
	$121,518.13		
Less rebates	192.33		
		$121,325.80	
Other receipts:			
Curb boxes	$8.44		
Wood	32.87		
Meters	70.00		
Rent	423.40		
Repairs to meters	123.84		
Pipe	37.53		
Old iron	870.00		
Freight rebate	2.00		
Grass	10.00		
Water for circus	27.00		
Fire services	257.48		
Oil and gasoline	13.89		
Water for puddling trenches	106.29		
Hydrants	67.50		
Old lumber	84.00		
Manhole covers, etc	24.95		
Ray Brook Gardens	20.00		
Manchester Rendering Co.	.30		
Old cement pipe	31.30		
		2,210.79	
Hydrant rentals		23,075.00	
Total income for 1912			146,611.59
			$220,086.04

EXPENDITURES.

General construction and maintenance.....	$132,907.32	
Land purchased.....	16,050.00	
Paid for interest on water bonds.....	23,577.50	
Hydrant rentals set aside for sinking fund..	23,075.00	
Set aside for sinking fund for payment of water bonds, state law, 1897 bonds.....	5,000.00	
Total expenditures.....		200,609.82
Amount on hand December 31, 1912.....		$19,476.22

GENERAL CONSTRUCTION.

New mains and extensions.....	$40,065.21	
New penstock, concrete dam and headhouse	14,833.84	
Services	13,893.27	
Hydrants	1,851.06	
Meters	4,350.76	
		74,994.14
Land purchased.....		16,050.00

GENERAL MAINTENANCE.

Repairs on mains and services.....	$3,856.67	
Tools and repair of tools.....	3,091.84	
Current expense account.....	10,932.08	
Automobile account.....	4,989.20	
High service station.....	7,286.52	
Low service station.....	11,282.77	
Stand pipes and watering troughs.....	166.63	
Taxes and legal expenses.....	698.37	
Lease and rental of land.....	175.00	
Cleaning up around lake.....	1,248.42	
Repairs and reading meters.....	4,369.26	
Thawing out pipes.....	1,670.84	
Improvements	1,130.69	
Garage	1,890.00	
Yard	3,317.97	
Police protection at lake.....	1,076.92	
Commissioners' meetings.....	730.00	
		57,913.18
Hydrant rentals set aside for sinking fund..	$23,075.00	
Set aside for sinking fund for payment of water bonds, state law, 1897 bonds.....	5,000.00	
		28,075.00
		$177,032.32
Interest paid on water bonds.....		23,577.50
		$200,609.82

Classified Expenses for General Construction, 1912.

NEW MAINS AND EXTENSIONS.

Iron pipe and specials	$17,065.00	
Gates and gate boxes and valves	1,046.94	
Lead and gaskets	2,155.44	
Domes, covers and castings	516.80	
Freight, express and teaming	838.67	
Gasoline and oil	965.78	
Rubber boots	273.00	
Car tickets	235.00	
Repairing road	25.46	
Dynamite and exploders	700.75	
Brick and cement	123.55	
Nails, lags, files, grade stakes, etc.	94.71	
Sharpening drills, picks and blacksmith work	816.79	
Labor	15,207.32	
		$40,065.21

NEW PENSTOCK, CONCRETE DAM AND HEAD HOUSE.

Penstock	$4,853.34	
Steel piling	777.56	
Copper screens	294.24	
Electric work	71.46	
Cement, lumber, carpenter and mason labor	2,660.48	
Red lead, oil and stain	90.83	
Teaming	255.00	
Labor	5,830.93	
		$14,833.84

SERVICES.

Lead-lined iron pipe	$3,220.33	
Stop cocks, curb boxes, goose necks, ells and nipples	1,651.26	
Freight and express	78.31	
Telephone	26.00	
Leather pump packing	42.00	
Gas, solder, packing, washers and sundries	363.36	
Teaming	946.28	
Sharpening tools	191.28	
Labor	7,374.45	
		$13,893.27

HYDRANTS.

New hydrants	$1,157.80	
Valves	76.10	
Labor	617.16	
		$1,851.06

METERS.

Meters and fittings	$2,677.50	
Express and freight	54.92	
New meter boxes	88.00	
Labor	1,530.34	
		$4,350.76
Cost of general construction		$74,994.14

LAND PURCHASED.

John Caron land and cottage, Auburn, N. H.	$400.00	
A. D. Emery farm, Auburn, N. H.	10,000.00	
W. H. H. Perkins land, Auburn, N. H.	650.00	
Harrison Preston land, Auburn, N. H.	5,000.00	
		$16,050.00

CLASSIFIED EXPENSES FOR GENERAL MAINTENANCE, 1912.

REPAIRS ON MAINS, SERVICES, ETC.

Damage claims	$106.67	
Labor	3,750.00	
		$3,856.67

TOOLS AND REPAIRS OF TOOLS.

Sullivan Portable Air Compressor complete	$1,621.50	
Repairs on Portable Air Compressor	85.07	
Tapping machine with cutters and tools	450.00	
Tapping machine and cocks	87.25	
One transit complete	243.85	
Two 24″ lead furnaces	52.00	
Picks, shovels, hose, pails, miscellaneous tools	552.17	
		$3,091.84

CURRENT EXPENSE ACCOUNT.

Salaries and clerical hire	$7,874.36
Stationery, printing and postage	436.76
Telephone	53.89
Lighting	45.01
Typewriters	160.43
Adding machine	269.50
Furniture in Commissioners' room	264.25
Office furniture and counter	425.11
Office supplies	392.68
Filing cabinets and card index	401.88
Office improvements	476.36

Insurance on Moulton house	$15.00	
J. E. Holmes' bill	116.85	
		$10,932.08

AUTOMOBILE ACCOUNT.

One Peerless motor truck	$4,225.00	
Insurance	124.00	
Radiator, new tires and chains	524.49	
Minor repairs and supplies	115.71	
		$4,989.20

HIGH SERVICE STATION.

Salary	$3,803.69	
Extra labor	77.25	
Fuel and cartage	2,584.04	
Telephone and electric lights	125.23	
New batteries and connecting same on telltale	50.00	
Repairs and tools	193.19	
Oil and supplies	453.12	
		$7,286.52

LOW SERVICE STATION.

Salaries	$3,069.25	
Extra labor	383.25	
Fuel and cartage	581.12	
Telephone and electric lights	130.50	
Electric power	6,310.70	
Repairs and tools	226.83	
Oil and supplies	581.12	
		$11,282.77

STAND PIPES AND WATERING TROUGHS.

Curb cocks, couplings and fittings	$66.47	
Labor and teaming	100.16	
		$166.63

TAXES AND LEGAL EXPENSES.

Taxes on property in Auburn, N. H.	$617.82	
Burnham, Brown, Jones & Warren and A. D. Emery's bills	80.55	
		$698.37

LEASE AND RENTAL OF LAND.

Lease of Mountain Grove land	$75.00	
Annual rental of S. C. Pennock property	100.00	
		$175.00

CLEANING UP AROUND LAKE.

Labor cutting off brown-tails, sawing wood and cleaning up lake shore		$1,248.42

REPAIRING, SETTING AND READING METERS.

Repairs to meters and replacing boxes	$870.95	
Setting meters	765.19	
Reading meters	2,733.12	
		$4,369.26

THAWING OUT PIPES.

Lime, salt and coal	$11.75	
Moving boats and thawing pipes on bridge	51.86	
Manchester Traction, Light and Power Co.'s bill	687.23	
Labor	920.00	
		$1,670.84

IMPROVEMENTS.

Concrete driveway	$109.93	
Painting pipes on McGregor bridge	110.97	
Lockers in work room	83.00	
Closets and sink in work room	48.58	
Electric work in work rooms and store room	11.12	
Bench, bins, cement floor, painting and general repairs in work room and store room	767.09	
		$1,130.69

GARAGE.

Cement and brick	$295.53	
Windows, doors, frames and stools	213.66	
Slate roof	175.00	
Steel work	119.85	
Granolithic	454.33	
Hardware, gasoline tank and miscellaneous items	192.33	
Painting	34.61	
Labor	404.69	
		$1,890.00

YARD.

Fencing, lumber and posts	$1,111.42	
Moving shed	160.00	
Blacksmithing and irons	33.75	
Cement	236.73	

Nails, hardware etc.	$59.75	
Painting	186.52	
Rent of side track	32.40	
Labor	1,497.40	
		$3,317.97

POLICE PROTECTION.

Taxes on motor boat	$2.46	
Batteries, lead, oil and supplies	10.17	
Repairs	19.89	
Allowance for uniform	50.00	
F. E. Wiggin's bill	17.50	
Labor	976.90	
		$1,076.92

COMMISSIONERS' MEETINGS.

Charles H. Manning	$160.00	
Perry H. Dow	95.00	
Edgar J. Knowlton	105.00	
Edgar J. Knowlton, clerk	100.00	
Charles M. Floyd	85.00	
William Corey	45.00	
Robert E. McKean	100.00	
Walter G. Africa	40.00	
		$730.00

Cost of general maintenance	$57,913.18
Hydrant rentals set aside for sinking fund	23,075.00
Set aside for sinking fund for payment of water bonds, state law, 1897 bonds	5,000.00
Amount paid for interest on water bonds	23,577.50
	$200,609.82

BONDED INDEBTEDNESS.

August 1, 1893, rate 5%, due August 1, 1913	$100,000.00
November 1, 1893, rate 4½%, due November 1, 1913	100,000.00
October 1, 1894, rate 4%, due October 1, 1914	50,000.00
July 1, 1895, rate 4%, due July 1, 1915	100,000.00
December 16, 1895, rate 4%, due December 16, 1915	50,000.00
January 1, 1897, rate 4%, due January 1, 1917	100,000.00
	$500,000.00

SINKING FUND.

1893	$12,750.00
1894	13,925.00
1895	15,800.00
1896	16,800.00
1897	17,175.00

1898	17,675.00
1898	5,000.00
1899	5,000.00
1899	18,100.00
1900	18,425.00
1900	5,000.00
1901	5,000.00
1901	18,575.00
1902	18,800.00
1902	5,000.00
1903	5,000.00
1903	19,200.00
1904	19,450.00
1904	5,000.00
1905	5,000.00
1905	19,550.00
1906	5,000.00
1906	20,075.00
1907	20,625.00
1907	5,000.00
1908	5,000.00
1908	20,925.00
1909	21,275.00
1909	5,000.00
1910	5,000.00
1910	22,025.00
1911	22,450.00
1911	5,000.00
1912	23,075.00
1912	5,000.00
	$451,675.00
Interest to December 31, 1911	80,527.02
Interest for 1912	4,973.76
	$537,175.78

PAID FROM SINKING FUND.

Retiring bonds January 1, 1902	$100,000.00	
Retiring bonds January 1, 1907	100,000.00	
Retiring bonds July 1, 1910	100,000.00	
Retiring bonds January 1, 1912	100,000.00	
		$400,000.00
Balance on hand		$137,175.78
Cash in general sinking fund		$62,175.78
Cash in special sinking fund, 1897 bonds		75,000.00
		$137,175.78

Respectfully submitted,

JOHN L. WADE,
Registrar.

REPORT OF THE SUPERINTENDENT.

CITY OF MANCHESTER, December 31, 1912.

To the Board of Water Commissioners:

GENTLEMEN:—I herewith present to you the Superintendent's forty-first annual report for the year ending December 31, 1912.

This year we have done a large amount of extraordinary work, having put in a new steel penstock, built a new concrete dam and head house and laid a new 24-inch pipe from the low power station to the reservoir, built a garage, bought a Peerless truck and a gas Compressed Air Drilling outfit.

Owing to the growth of the city the demands for extension mains and services have been unusually large, probably more than in any one year since the Water-Works was established.

The following land has been purchased during the year:

A. D. Emery farm, Auburn, N. H.
W. H. H. Perkins land, Auburn, N. H.
Harrison Preston land, Auburn, N. H.
John Caron land and cottage, Auburn, N. H.

Both the low and high power stations are in good repair, and no changes have been made during the year excepting the necessary repairs.

The expenditures for the year exceeded the income, owing to the large amount of work performed, land purchased, and improvements made. The income from water was $25,598.31 less than last year on account of the reduction of water rates which went into effect October 1, 1911.

Early in the year it seemed advisable to employ an engineer to bring our maps up to date. Mr. Ferry has been working in this department since the twenty-fourth of February and a great deal of valuable work has been performed.

Following this report will be found a statement of the work performed during the year, height of water in the lake and other data concerning the works.

Respectfully submitted,

J. H. MENDELL,
Superintendent.

WATER PIPE LAID IN 1912.

Location of Pipe.	Size in inches.	Cast iron	Length in feet.	Cost.
Adams St.—Notre Dame Ave. to Cartier.	6	Cast iron	245	164.09
Amory St.—West of Congress	8	"	206	197.14
Arah St.—East from Union to Hooksett Line	6	"	3,196	3,449.67
Bay St.—North from Sagamore	6	"	91	97.67
Beech St.—North from Bridge	12	"	50	147.30
Bremer St.—Alsace to East of Reed	6	"	734	436.82
Bridge St.—Across Beech	6	"	50	141.13
Buzzell St.—North from Lowell	6	"	120	185.70
Chestnut St.—North from Sagamore	6	"	322	279.56
Cody St.—North from Candia Rd	6	"	271	284.54
Cohas Ave.—Reservoir to near pumping station	24	"	6,937	23,989.12
Cohas Ave.—Pumping station north to 24" pipe	20	"	250	
Cohas Ave.—Blow-off	8	"	26	
Cohas Ave.—Branches to hydrants	6	"	30	
Columbus St.—South of Amory	6	"	105	109.64
Conant St.—West of Montgomery	6	"	110	80.74
Dartmouth St.—North of Woodbury	6	"	302	208.75
Delaware Ave.—South from Paris	6	"	64	167.74
Derry Rd.—Northwest of Conant Rd	6	"	407	1,035.01
Dickey Rd.—East and west of Cohas Ave.	8	"	139	251.14
Edmond St.—Theophile to Henriette and south of Pinard	6	"	415	255.66
Everett St.—West Clarke to Thayer	4	"	465	212.15
Gates St.—Rimmon to Cartier	6	"	562	424.86
Hall St.—Dix to Shasta	6	"	502	376.40
Hall St.—North of Manning	6	"	19	9.53
Hall St.—For McElwain Co. (Fire service)	6	"	67	80.83
Hancock St., West—Fire service for Crafts' shop	6	"	39	82.99
Hanover St.—Merrimack to west of Highland	6	"	833	1,180.69
Harrison St.—West of Hall St	6	"	393	502.86
Harvard St.—Belmont to Taylor	6	"	598	352.24
Hevey St.—South of Mason	6	"	205	
Hevey St.—South of 6-inch	8	"	232	379.85
Highland St.—Hanover to Amherst	6	"	473	603.64
Kelley St.—East from Morgan	6	"	141	153.45
London St.—Maryland to Pennsylvania	6	"	254	256.02
Manning St.—Hall to Belmont	6	"	370	231.90
Maple St.—Blodgett to Sagamore	6	"	510	357.63
Maryland Ave.—North and south of London	6	"	477	389.53
Page St.—Hanover to south of London	6	"	811	943.08
Paris St.—Delaware Ave. to Pennsylvania Ave.	6	"	265	394.04
Pennsylvania Ave.—Paris to London	6	"	460	595.28
Pike's gravel pit	6	"	4	16.58
Pinard St.—West from Edmond	6	"	17	13.41
Railroad St.—South from Sullivan	6	"	308	171.87
Rimmon St.—Cor. Mason	12	"	48	130.09
Rimmon St.—South from Gates	6	"	81	56.46
River Rd.—North of Union	8	"	510	589.50
River Rd.—South of Union	8	"	1,265	2,020.93
River Rd.—South of Union branch to hydrants	6	"	16	
Sagamore St.—Chestnut to Bay	6	"	350	238.25
Second St.—South from Granite	6	"	168	199.75
Somerville St.—Fire service pipe for B. H. Piper Co	6	"	39	74.92
State Industrial School—River Rd. to new girls' school	6	"	1,284	634.86
Sullivan St.—Bartlett to Thornton, Whipple to Railroad	6	"	743	411.26
Theophile St.—Mast Rd. to Edmond	6	"	372	239.53
Union St.—Arah to North River Rd	8	"	4,881	5,632.63
Wayland Ave.—East of Mammoth Rd	8	"	383	512.21
Westland Ave.—West from Brown Ave	6	"	270	183.48
Wheelock St.—Hancock to Goffe	4	"	209	259.74

LOCATION OF GATES ON MAIN SET IN 1912.

Street.	Location.	Size (inches).
Adams street	East line of Cartier	6
Amory street	West line of Congress	8
Arah street	East line of Union	6
Arah street	Near Royer's house	6
Bay street	North line of Sagamore	6
Bridge street	7 ft. west from east line of Beech	6
Bridge street	9 ft. 5 in. east from west line of Beech	6
Buzzell street	17 ft. from north line of Lowell, 12 ft. from west line of Buzzell	6
Chestnut street	North line of Sagamore	6
Cody street	North line of Candia Rd.	6
Cohas avenue	44 ft. south from north line of Dickey Rd.	24
Cohas avenue	North from station	20
Cohas avenue	Top of hill near reservoir	24
Cohas avenue	Inside fence at reservoir	24
Cohas avenue	On blow-off, 50 ft. north from Brook	8
Cohas avenue	To connect Mammoth Rd.	8
Cohas avenue	On branch to blow-off at station	6
Cohas avenue	On hydrant branch	6
Cohas avenue	On hydrant branch	6
Cohas avenue	On hydrant branch	6
Dickey Rd.	East line of Cohas Ave.	8
Dickey Rd.	West line of Cohas Ave.	8
Dickey Rd.	On hydrant branch	6
Edmond street	South line of Henriette	6
Everett street	North line of Clarke	4
Gates street	East line of Rimmon	6
Gates street	West line of Cartier	6
Hall street	South line of Dix	6
Hall street	On McElwain's fire service	6
Hancock street, west	On Craft's fire service	6
Harvard street	East line of Belmont	6
Hevey street	East line of Morgan	6
Highland street	North line of Hanover	6
Kelley street	East line of Morgan	6
London street	East line of Maryland Ave.	6
Maple street	North line of Blodgett	6
Page street	North line of Hanover	6
Paris street	East line of Pennsylvania Ave.	6
River Rd.	West line of Union	8
River Rd.	On hydrant branch	6
River Rd.	On hydrant branch	6
Second street	South line of Granite	6
Somerville street	On B. H. Piper's fire service	6
State Industrial school	Girls' school, west line of River Rd.	6
Sullivan street	West line of Bartlett	6
Sullivan street	On south line of Sullivan	6
Theophile street	East line of Mast Rd.	6
Union street	North line of Arah	8
Union street	Near Eakett's house	8
Union street	South line of River Rd.	8
Wayland avenue	East line of Mammoth Rd.	8
Westland avenue	West of Brown Ave.	6
Wheelock street	South line of West Hancock	4
	Total	53

PIPES AND GATES LAID DURING 1912

Diameter of Pipe	Length	Material	Gates
24-inch	6,937 feet	Cast-iron	3
20-inch	250 feet	"	1
12-inch	98 feet	"	.....
8-inch	7,642 feet	"	10
6-inch	17,093 feet	"	37
4-inch	674 feet	"	2
			53

Lowered 90 feet 6 inches of pipe on Alfred Street.
New hydrants set during 1912, 18.

HEIGHT OF WATER AT DAM.

Jan. 1	23	inches above dam.	July 1	11.25	inches above dam.
Feb. 1	21.5	inches above dam.	Aug. 1	3.5	inches above dam.
Mar. 1	17.5	inches above dam.	Sept. 1	0.	top of dam.
Apr. 1	35.5	inches above dam.	Oct. 1	1.	inch below dam.
May 1	29.25	inches above dam.	Nov. 1	2.25	inches below dam.
June 1	29.00	inches above dam.	Dec. 1	5.	inches above dam.

Highest water, March 20, 38.25 inches above dam.
Lowest water, October 22, 3.75 inches below dam.

RAINFALL HIGH POWER STATION 1912.

Jan.	2.48 inches.	May	5.39 inches.	Sept.	3.28 inches.
Feb.	1.78 inches.	June	.50 inches.	Oct.	2.55 inches.
Mar.	5.79 inches.	July	3.94 inches.	Nov.	3.65 inches.
Apr.	3.28 inches.	Aug.	2.77 inches.	Dec.	4.11 inches.

Total rainfall, 37.73 inches.

SNOWFALL 1912.

Jan.	21.75 inches.	Mar.	13.25 inches.	Dec.	3.25 inches.
Feb.	6.00 inches.	Apr.	5.50 inches.		

Total snowfall, 49.75 inches.

AMOUNT OF WATER PUMPED.

Water	618,263,530 gallons
Steam	438,709,922
Electricity	426,940,000
Total amount of water pumped during 1912..	1,483,913,452 gallons

Daily average pumped	4,054,408
Daily amount used per capita (estimate population 75,000)	54

Cost of pumping per 1,000,000 gallons:	
Water	$3.00
Steam	16.50
Electricity	18.20

Amount of coal used:	
High service station	972,780 lbs.
Low service station	66,000
Total	1,038,780 lbs.

Main pipe laid during year	32,694 feet
Equal to	6.192 miles
Previously reported cast-iron	650,463 feet
Previously reported cement-lined	20,351
Discontinued cement lined	8,091
Cement-lined pipe in use	12,260
Total amount pipe in use	695,417
Equal to	131.708 miles

Number of hydrants set during year	18
Previously reported	923
Total number set to date	941
New gates set during year	53
Previously reported	1,237
Total number set to date	1,290
Meters set during year	324
Meters taken out during year	6
Previously reported	5,371
Total number set to date	5,689
New services	285
Relaid services	169
Services discontinued during 1912	10
Total number services discontinued to date	145
Previously reported	7,077
Total number to date	7,352
Number of applications for 1912	285
Total number of applications to date	7,497
Total number of standpipes for street sprinkling	70
Total number of watering troughs	28
Total number of drinking fountains	10

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1912.

Location of Pipe.	Length in Feet.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
A St.—South Main to B St.	6	836	.....	836
Abbott St.—Southwesterly from Sherman St.	6	133	.....	133
Adams St., North—Appleton to north of Clarke	6	1,308	.....	1,308
Adams St. (W. M.)—North Main to Cartier	6	655	.....	655
Agawam St.—River Rd. to Davis St.	8	227	.....	227
Alfred St.—Hanover to Amherst	6	340	.....	340
Allen St.—South Main to Boynton	8	772	.....	....
Allen St.—Branch to hydrant	6	9	.....	781
Alpine St.—North from Dickey	6	274	.....	274
Alsace St.—Amory, North, to halfway between Bremer and Mason	6	1,616	.....	1,616
Amherst St.—Elm to Pine	8	1,010	.....	....
Amherst St.—Pine to Beacon	6	4,394	.....	5,404
Amory St.—McGregor to above Congress	8	4,684	.....	....
Amory St.—Branches to hydrants	6	47	.....	4,731
Amoskeag St.—East end of Amoskeag bridge to Montgomery	12	3,695	.....	....
Amoskeag St.—Branch to hydrant	6	12	.....	3,707
Appleton St.—Union to west of Elm	6	1,694	.....	1,694
Arah St.—East from Union to Hooksett line	6	3,196	.....	3,196
Arlington St.—Maple to Morrison	6	1,765	.....	1,765
Ash St.—From north of Amherst to Concord	4	214	.....	214
Ash St.—Lowell to Bridge	6	750	.....	....
Ash St.—Harrison to Blodgett	4	740	.....	....
Ash St.—Blodgett to Salmon	6	870	.....	2,574
Ashland St.—Hanover to Pearl	10	2,264	.....	2,264
Auburn St.—Elm to Pine	8	1,010	.....	....
Auburn St.—Pine to Lincoln	6	2,300	.....	....
Auburn St.—Wilson to Belmont	6	920	.....	....
Auburn St.—East from Canton	6	314	.....	4,544
Auburn St., West—Elm to Canal	6	570	.....	570
Avon St.—Mast to Ingalls	6	1,032	.....	1,032
B St.—Prince to A	6	606	.....	606
Baker St.—Brown Ave. to Willow	6	2,624	.....	2,624
Bank St.—Huntress, east, to near Boynton	6	304	.....	304
Barr St.—Conant to Douglass	6	254	.....	....
Barr St.—Douglass to Granite	4	260	.....	514
Bartlett St.—Amory to south of Sullivan	8	2,501	.....	....
Bartlett St.—Branches to hydrants	6	28	.....	2,529
Bath St.—Third to Turner	6	517	.....	517
Bay St.—Sagamore to Webster	6	1,671	.....	....
Bay St.—Clarke to Carpenter	6	1,131	.....	2,802
Beacon St.—Laurel to near Manchester	6	441	.....	....
Beacon St.—Hanover to Bridge	6	1,660	.....	2,101
Bedel St.—Sherman Southwest	6	326	.....	326
Bedford St.—Grove to Granite	6	792	.....	....
Bedford St.—South from Granite	10	73	.....	865
Beech St.—Webster to Shasta	12	12,194	.....	....
Beech St.—Shasta to south of Gold	8	7,012	.....	....
Beech St.—Branches to hydrants	6	107	.....	19,313
Bell St.—Pine to east of Union	6	684	.....	....
Bell St.—West from Beech	6	150	.....	....
Bell St.—Wilson St. to east of Hall	6	562	.....	....
Bell St., (W. M.)—Second to Wentworth	6	565	.....	1,961
Belmont St.—Manning to Massabesic	6	5,060	.....	....
Belmont St.—Concord to Pearl	6	1,779	.....	....
Belmont St.—Pearl to Harrison	8	1,111	.....	7,950
Bennington St.—West from Main	6	48	.....	48
Birch St.—Lowell to Bridge	6	501	.....	501

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1912.—*Continued.*

Location of Pipe.	Length in Feet.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Bismark St.—Milford to Charlestown Ave.	6	1,036	.....	1,036
Blaine St.—South Main to Hiram	6	1,573	.....	1,573
Blair St.—West from Brown Ave	6	320	.....	320
Blodgett St.—Elm to Russell	6	1,534	.....	1,534
Boutwell St.—Amory to north of Bremer.	6	1,687	.....	1,687
Bowman St.—Mast to Milford	6	835	.....	....
Bowman St.—Milford to A	4	623	.....	1,458
Boynton St.—South Main to Allen	6	2,287	.....	....
Boynton St.—Allen to south of Sheridan	8	2,739	.....	5,026
Bremer St.—Coolidge Ave. to Hevey	6	750	.....	....
Bremer St.—West of Montgomery to Boutwell	6	1,497	.....	2,247
Bridge St.—Elm to Pine	8	1,020	.....	....
Bridge St.—Pine to Belmont	6	4,316	.....	....
Bridge St.—Belmont to Mammoth Rd	8	2,552	.....	7,888
Bridge St., West—Elm to McGregor	8	2,490	.....	2,490
Bridge St., Old—Mammoth Rd to west of Hall Rd.	6	282	.....	282
Brock St.—Milford St., north	6	242	.....	242
Brook St.—Elm to Oak	6	3,000	.....	3,000
Brook St., West—Elm to Canal	6	725	.....	725
Brooklyn Ave.	...	.....	.....	....
Brown Ave.—Elm to south of Grover	6	2,918	.....	....
Brown Ave.—From South of Grover to south of Westland Ave.	8	1,919	.....	....
Brown Ave.—Calef Rd. to Goffe's Falls	10	9,321	.....	14,158
Buzzell St.—Lowell to East High	6	369	.....	....
Buzzell St.—North from East High	4	156	.....	525
Byron St.—Brown Ave. to McElwain	8	1,018	.....	....
Byron St.—West from McElwain	10	336	.....	1,354
C St.—Boynton to B	6	637	.....	637
Calef Rd.—Welch Ave. to Baker	6	732	.....	....
Calef Rd.—Baker to Mitchell	8	2,952	.....	....
Calef Rd.—Mitchell to Brown Ave	10	4,028	.....	....
Calef Rd.—Titus Ave. to Pine Grove cemetery	4	312	.....	8,024
Canal St.—West Auburn to Granite	8	750	.....	....
Canal St.—Granite to Depot	14	226	.....	....
Canal St.—Depot to West Salmon	8	5,847	.....	....
Canal St.—Branches to hydrants	6	52	.....	6,875
Candia Rd.—Massabesic to Proctor Rd	20	7,201	.....	....
Candia Rd.—Proctor Rd. to Madison St	10	3,316	.....	....
Candia Rd.—Branches to hydrants	6	156	.....	10,673
Canton St.—Lake Ave. to Auburn	6	771	.....	771
Carpenter St.—Elm to Union	6	1,431	.....	1,431
Carroll St.—Milford to Charlestown Ave.	6	882	.....	882
Cartier St.—Coolidge to Church, south of Amory	6	1,400	.....	....
Cartier St.—Wayne to near Schuyler	6	1,380	.....	....
Cartier St.—Adams to Conant	6	631	.....	3,411
Cass St.—Lake Ave. to Laurel	6	495	.....	495
Cedar St.—Elm to Pine	8	1,010	.....	....
Cedar St.—Pine to Lincoln	6	2,320	.....	....
Cedar St.—Wilson to east of Hall	6	681	.....	....
Cedar St., West—Elm to Canal	6	650	.....	4,661
Charlestown Ave.—George St. to Brock	6	790	.....	790
Chase Ave.—Hospital Ave. to Hayes Ave.	6	520	.....	520
Cheney Place—West from Elm	4	238	.....	238
Chestnut St.—Cedar to Lake Ave	4	540	.....	....
Chestnut St.—Central to Amherst	4	1,384	.....	....
Chestnut St.—Lowell to Pearl	6	870	.....	....
Chestnut St.—Pearl to Brook	8	1,597	.....	....
Chestnut St.—Brook to Blodgett	6	275	.....	....

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1912.—*Continued.*

Location of Pipe.	Length in Feet.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Chestnut St.—Sagamore to Webster	6	1,640	.....	....
Chestnut St.—Appleton to north of Carpenter	6	2,486	.....	8,722
Church St.—North from Washington St.	4	147	.....	147
Cilley Rd.—Mammoth Rd. to near Porter St.	8	1,213	.....	....
Cilley Rd.—East of Taylor to west of Hall	6	1,389	.....	2,602
Central St.—Elm to Pine	8	1,192	.....	....
Central St.—Pine to Cass	6	5,134	.....	....
Central St., West—Elm to Bedford	6	1,100	.....	7,426
Clarke St.—River Rd. to Union	6	1,949	.....	1,949
Clay St.—Lincoln to Hall	6	1,200	.....	....
Clay St.—Taylor to Cypress	6	800	.....	....
Clay St.—West from Jewett	6	268	.....	2,268
Clement St.—Ingalls to Dickey	6	304	.....	304
Cleveland St.—Blaine to Hiram	6	1,482	.....	1,482
Clinton St.—South Main to West	6	563	.....	563
Clough Ave.—South from Spruce	6	258	.....	258
Cody St.—North from Candia Rd.	6	271	.....	271
Cohas Ave.—East from Mammoth Rd.	8	390	.....	....
Cohas Ave.—Reservoir to near pumping station	24	6,937	.....	....
Cohas Ave.—North from pumping station to 24″	20	250	.....	....
Cohas Ave.—North from pumping station to 24″	20	300	.....	....
Cohas Ave.—Branch to blow-off	8	26	.....	....
Cohas Ave.—Branch to hydrant	6	30	.....	7,933
Colby St.—West Hancock to Log	8	253	.....	253
Columbus St.—South of Amory	6	388	.....	388
Conant St.—North Main to west of Montgomery	6	1,901	.....	1,901
Conant Rd.—Derry Rd. to south of Corning Rd.	6	1,586	.....	1,586
Concord St.—Elm to Pine	8	1,010	.....	....
Concord St.—Pine to Weston	6	4,854	.....	5,864
Congress St.—South from Amory	6	250	.....	250
Coolidge Ave.—Kelley to Labreque	8	1,176	.....	1,176
Cove St.—Elm St., west, across river to Turner	12	1,956	.....	1,956
Crown St.—Park Ave. to Victoria	8	344	.....	....
Crown St.—Branch to hydrant	6	4	.....	348
Cumberland St.—Amory to Monitor	6	663	.....	663
Cypress St.—Spruce to Auburn	6	500	.....	....
Cypress St.—From south to Massabesic to Hayward	6	900	.....	....
Cypress St.—Young Rd. to Clay	6	920	.....	....
Cypress St.—Holly Ave. to Vinton	6	426	.....	2,746
D St.—Mast Rd. to West of Dickey	6	304	.....	304
Dartmouth St.—Hancock to Woodbury	6	1,071	.....	1,071
Davignon St.—North from Pinard	6	235	.....	235
Davis St.—Agawan to Victoria	8	175	.....	175
Dean St.—Elm to Canal	6	764	.....	764
Dearborn St.—Summer to Taylor	6	670	.....	670
Delaware Ave.—Hanover to Paris	6	418	.....	418
Depot St.—Elm to Canal	14	835	.....	864
Depot St.—Branches to hydrants	6	29	.....	....
Derry St.—Southwest from Concord	4	147	.....	147
Derry Rd.—Mammoth Rd. to Dickey Rd.	8	807	.....	....
Derry Rd.—Dickey Rd. to east of Conant Rd.	6	3,961	.....	4,768
Dickey St.—Alpine to Avon	6	929	.....	929
Dickey Rd.—East from Derry Rd.	8	288	.....	....

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1912.—*Continued.*

Location of Pipe.	Length in Feet.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Dickey Rd.—Branch to hydrant	6	7	.....	....
Dickey Rd.—East of Cohas Ave	8	75	.....	....
Dickey Rd.—West from Cohas Ave	8	64	.....	....
Dickey Rd.—Branch to hydrant	6	8	.....	442
Dix St.—Maple to Hall	6	1,800	.....	....
Dix St.—East from Taylor	6	275	.....	2,075
Donahue St.—Sheridan to Glenwood	6	451	.....	451
Donald St.—Milford to Robie	6	552	.....	....
Donald St.—Robie to St. Joseph's cemetery	8	936	.....	1,488
Douglass St.—Railroad to east of Main	6	2,014	.....	....
Douglass St.—West from Turner	6	75	.....	2,089
Dover St.—Clinton to Douglass	4	622	.....	622
Dubuque St.—Conant to North of Gates	6	676	.....	....
Dubuque St.—Putnam to Bremer	6	2,400	.....	3,076
Dunbarton Rd.—Front St. west to Colby Place	6	1,210	.....	1,210
Dutton St.—Amherst to Concord	4	471	.....	471
Eddy Rd.—McGregor to Mill	10	2,922	.....	....
Eddy Rd.—Blow-off to Eddy	8	14	.....	....
Eddy Rd.—Branch to hydrant	6	10	.....	2,946
Edgemere Ave.—East from Calef Rd	6	354	.....	354
Edmond St.—Theophile to Pinard	6	555	.....	555
Elm St.—From south of Baker to Cove	12	3,154	.....	....
Elm St.—Cove to Trenton	14	12,642	.....	....
Elm St.—Trenton to Rowell	12	980	.....	....
Elm St.—Branches to hydrants	6	347	.....	17,123
Elm Ave.—Elm to Calef Rd	4	384	.....	384
Elmhurst Ave.—East from Calef Rd	6	407	.....	407
Erie St.—West from South Main	6	424	.....	....
Erie St.—Gilford to Boynton	8	435	.....	859
Essex St.—Amory to Monitor	6	666	.....	666
Everett St.—Waldo to Thayer	4	820	.....	820
Falls Ave.—East from Falls Rd	6	338	.....	338
Falls Rd.—Massabesic to North of Falls Ave.	6	562	.....	562
Ferry St.—South Main to Second St	12	914	.....	914
Ferry Lane—Turner to Second	12	260	.....	260
Fibre St.—East from Front St	6	80	.....	80
Forest St.—Mast to Sylvester	6	1,554	.....	1,554
Foster Ave.—North from Hayward	4	308	.....	308
Fourth St.—South from Walker	6	218	.....	218
Franklin St.—Auburn, west to Granite	6	605	.....	....
Franklin St.—South from Depot St	6	72	.....	....
Franklin St.—North from Depot St	6	99	.....	....
Franklin St.—Merrimack to Market	6	525	.....	1,301
Frederick St.—West from Second	6	194	.....	....
Frederick St.—East from Second	6	308	.....	....
Frederick St.—West from Dartmouth	6	234	.....	736
Front St.—Mill to Goffstown Rd	10	1,094	.....	....
Front St.—Goffstown Rd. to north of Dunbarton Rd.	8	2,514	.....	
Front St.—Branches to hydrants	6	41	.....	3,649
Garmon St.—Hanover to near Amherst	6	347	.....	347
Goffe St.—South Main to Hancock	6	562	.....	562
George St.—North from Milford	8	391	.....	....
George St.—From end of 8 inches to Charlestown	6	477	.....	868
Gertrude St.—Hanover to Amherst	6	324	.....	324
Gilford St.—Oneida to Erie	8	802	.....	802
Glendale St.—West from Jewett	6	257	.....	257
Glenwood Ave. (W. M.)—Northwest from Boynton	6	292	.....	292

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1912.—*Continued.*

Location of Pipe.	Length in Feet.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Glenwood Ave. (E. M.)—Hall Rd. to Mammoth	6	542	.....	....
Glenwood Ave. (E. M.)—Orchard to Woodland	6	507	.....	....
Glenwood Ave. (E. M.)—Page to Lovering	6	510	.....	1,559
Goffe St.—South Main to Hancock	6	825	.....	825
Goffstown Rd.—West from Front	6	2,674	.....	2,674
Gold St.—East from Calef Rd	6	512	.....	512
Granite St.—Elm to Canal	6	832	.....	....
Granite St.—Canal to Print Works gate	14	619	.....	....
Granite St.—Print Works gate across river to Turner	8	910	.....	....
Granite St.—Turner to Main	10	900	.....	....
Granite St.—Main to Quincy	6	1,609	.....	....
Granite St.—R. R. bridge to Winter	4	177	.....	5,047
Green St. (E. M.)—Pine to Beech	6	920	.....	....
Green St. (E. M.)—Wilson to Hall	6	457	.....	1,377
Green St. (W. M.)—Conant to Douglass	6	260	.....	....
Green St. (W. M.)—Douglass to Granite	4	260	.....	520
Grove St. (Amoskeag Corp.)—Bedford to State	6	231	.....	231
Grove St.—Pine to Beech	6	1,060	.....	....
Grove St.—Belmont to near Taylor	6	675	.....	1,735
Hall St.—Manning to north of Clay	6	1,365	.....	....
Hall St.—Silver to Harvard	6	309	.....	....
Hall St.—Harvard to Valley	8	1,025	.....	....
Hall St.—Summer to Cedar	6	509	.....	....
Hall St.—Bridge to Pearl	6	527	.....	....
Hall St.—Fire pipe for McElwain Co.	6	67	.....	3,802
Hall Rd.—Massabesic to Auburn	6	1,711	.....	....
Hall Rd.—Bridge to high service reservoir (E. M.)	20	2,000	.....	3,711
Hancock St.—West from Brown Ave. to railroad	6	1,201	.....	1,201
Hancock St.—West, South Main to Harvey	6	1,710	.....	....
Hancock St.—West, fire pipe for Crafts' shop	6	39	.....	1,749
Hanover St.—Elm to Pine	8	1,010	.....	....
Hanover St.—Pine to Ashland	6	2,900	.....	....
Hanover St.—Ashland to Wilson	10	115	.....	....
Hanover St.—Wilson to Mammoth Rd.	6	4,224	.....	....
Hanover St.—Mammoth Rd. to Proctor Rd.	10	5,864	.....	....
Hanover St.—Branches to hydrants	6	79	.....	14,192
Harriman St.—North from Sheridan	6	145	.....	....
Harriman St.—South from Sheridan	6	136	.....	281
Harrington Ave.—West from Calef Rd.	6	175	.....	175
Harrison St.—Elm to Belmont	6	5,075	.....	5,075
Harvard St.—Beech to Portsmouth tracks	6	1,196	.....	....
Harvard St.—Wilson to Taylor	6	1,550	.....	2,746
Harvell St.—East from South Main	6	50	.....	50
Hayes Ave.—Massabesic to Chase Ave.	6	472	.....	472
Hayward St.—Elm to Willow	6	310	.....	....
Hayward St.—Pine to Knowlton	6	6,552	.....	....
Hayward St.—Porter to Mammoth Rd. (S. M.)	12	677	.....	7,539
Hazel St.—Harrison to Brook	4	434	.....	434
Head St.—Mast to McClintock	6	1,249	.....	1,249
Henrietta St.—Mast Rd. to Edmond	6	414	.....	414
Hevey St.—Conant to south of Gates	6	338	.....	....
Hevey St.—Columbus Ave. to Bremer	6	1,733	.....	....

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1912.—*Continued.*

Location of Pipe.	Length in Feet.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Hevey St.—South of Mason St.	8	205	.....	....
Hevey St.—South of 6 inch	..	232	.....	2,508
High St.—Chestnut to Union	4	858	.....	858
High St., East—Maple to Weston	6	3,603	.....	3,603
High service station to Fletcher's Crossing (E. M.)	20	4,256	.....	....
High service station to Fletcher's Crossing blow-off	10	153	.....	....
High service station—Branches to hydrants	6	43	.....	4,452
Highland St.—Hanover to Amherst	6	473	.....	....
Highland St.—Lowell to Bridge	6	686	.....	1,159
Highland Ave.—South from Wilkins	6	524	.....	524
Highland Park Ave.—Candia Rd. to Glenwood Ave.	6	1,040	.....	1,040
Hillcrest Ave.—Brown Ave. to near Elm.	6	586	.....	....
Hillcrest Ave.—West from Calef Rd	6	468	.....	1,054
Hiram St.—Cleveland to Blaine	6	256	.....	256
Hollis St.—Elm to Canal	6	756	.....	756
Holly Ave.—Cypress to Belmont	6	1,384	.....	1,384
Hosley St.—Grove to Summer	6	532	.....	532
Hospital Ave.—Southwest from Chase Ave.	6	192	.....	192
Howe St.—Maple to west of Hall	6	1,531	.....	1,531
Hubbard St.—Amherst to Concord	6	376	.....	376
Huntress St.—Prince to south of bank	6	792	.....	792
Jane St.—Lowell to High	4	442	.....	442
Jane St.—Nashua to near High	4	195	.....	195
Jewett St.—Glendale Ave. to Hayward	8	1,863	.....	....
Jewett St.—Merrill to Massabesic	6	623	.....	2,486
Joliette St.—Amory to north of Bremer	6	1,484	.....	1,484
Jones St.—Nelson to near Benton	6	471	.....	471
Kearsarge St.—Amory to south of Monitor	6	843	.....	843
Kelley St.—Coolidge Ave. to Morgan	6	3,611	.....	3,611
Kennedy St.—West from Brown Ave	6	467	.....	467
Kidder St.—Elm to Canal	6	750	.....	750
Kidder Ct.—Across Elm	6	57	.....	....
Kidder Ct.—West of Elm	4	185	.....	242
Knowlton St.—South from Hayward	6	503	.....	503
Lafayette St.—Amory to north of Kelley	6	991	.....	991
Lake Ave.—East from Elm	20	104	.....	....
Lake Ave.—East of Elm to Hall	20	....	4,354	....
Lake Ave—Branches to hydrants	6	....	45	....
Lake Ave.—Hall to west of J. Hall Rd	6	3,100	.....	....
Lake Ave.—Mammoth Rd. to Hanover	6	1,229	.....	8,832
Lamprey St.—East from Rockland Ave.	6	606	.....	606
Langdon St.—East from Canal	6	275	.....	....
Langdon St.—West from Elm	6	185	.....	460
Laurel St.—Chestnut to east of Cass	6	5,748	.....	5,748
Laval St.—Amory to north of Bremer	6	1,742	.....	1,742
Liberty St.—Webster to North	6	657	.....	....
Liberty St.—South from Salmon to back street	4	238	.....	895
Lincoln St.—North from Merrimack St	6	147	.....	....
Lincoln St.—South from Amherst	4	208	.....	355
Lingard St.—Southwest from Willow	6	460	.....	460
Log St.—Southwest from So. Main back street	6	230	.....	230
London St.—Maryland Ave. to Pennsylvania	6	254	.....	254
Londonderry Rd.—Southeast from Brown Ave.	8	3,606	.....	....

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1912.—*Continued.*

Location of Pipe.	Length in Feet.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Londonderry Rd.—East from 8-inch pipe..	6	752	.....	4,358
Longwood Ave.—Mammoth Rd. to Woodbine Ave.	6	1,157	.....	1,157
Lovering St.—North from Glenwood Ave.	6	182	.....	....
Lovering St.—South from Glenwood Ave.	6	182	.....	364
Lowell St.—Elm to Mammoth Rd.	12	7,570	.....	....
Lowell St.—Blow-off at Maple	8	32	.....	7,602
McDuffie St.—Boynton to Huntress	6	527	.....	527
McElwain St.—Byron to Kennedy	6	539	.....	539
McGregor St.—Main to Amory	6	1,267	.....	....
McGregor St.—Amory to West Bridge	8	150	.....	....
McGregor St.—West Bridge to Main	6	900	.....	2,317
McNeil St.—Hancock to Second	6	206	.....	206
Main St.—McGregor to Granite	10	4,550	.....	....
Main St.—Branch to hydrant	6	10	.....	....
Main St., South—Granite to south of Erie	10	6,090	.....	....
Main St., South—Branches to hydrants	6	44	.....	....
Main St., South—Oneida to Second	10	713	.....	11,407
Malvern St.—North from Concord	4	266	.....	....
Malvern St.—South from East High	4	260	.....	....
Malvern St.—South from Bridge	4	381	.....	907
Mammoth Rd.—Derry Rd. to Cohas Ave.	8	3,461	.....	....
Mammoth Rd.—Branches to hydrants	6	36	.....	....
Mammoth Rd.—Low service reservoir to Massabesic	20	....	3,700	....
Mammoth Rd.—Branch to hydrant	6	....	12	....
Mammoth Rd.—Candia Rd. to bridge	20	5,724	.....	....
Mammoth Rd.—Bridge to north of Old Bridge	6	998	.....	13,931
Manchester St.—Elm to Pine	8	1,010	.....	....
Manchester St.—Pine to near Beacon	6	4,400	.....	5,410
Manning St.—Hall to Belmont	6	370	.....	370
Maple St.—Shasta to Somerville	6	1,000	.....	....
Maple St.—South from Concord	6	275	.....	....
Maple St.—North from Concord	6	132	.....	....
Maple St.—Lowell to Bridge	6	775	.....	....
Maple St.—Bridge to Harrison	10	1,437	.....	....
Maple St.—Harrison to Blodgett	4	752	.....	....
Maple St.—Blodgett to Sagamore	6	510	.....	4,881
Maplewood St.—North from Harrington Ave.	6	206	.....	206
Marion St.—McGregor to Main	6	290	.....	290
Market St.—Elm to Canal	6	962	.....	962
Maryland Ave.—South from London	6	368	.....	....
Maryland Ave.—North from London	6	109	.....	477
Mason St.—East line, Rimmon to Montgomery	12	570	.....	....
Mason St.—Branch to hydrant	6	8	.....	578
Massabesic St.—Between Mammoth Rd. and Lake Ave.	20	....	4,149	....
Massabesic St.—Mammoth Rd. to Lake Ave.	20	561	.....	....
Massabesic St.—Mammoth Rd. to Valley..	20	915	.....	....
Massabesic St.—Porter to Hall Rd.	6	250	.....	5,875
Mast St.—South Main to near Brock	6	3,209	.....	....
Mast St.—Forest to Rockland Ave.	6	640	.....	3,849
Mast Rd.—Mast to Wilkins	6	1,838	.....	....
Mast Rd.—Wilkins to Pinard	8	3,812	.....	5,650
Mead St.—Hall to Belmont	6	362	.....	362
Mechanic St.—Elm to Canal	6	788	.....	788
Merrill St.—East from Jewett	6	377	.....	377
Merrimack St.—Elm to Union	8	1,550	.....	....
Merrimack St.—Union to Hanover	6	5,645	.....	7,195

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1912.—*Continued.*

Location of Pipe.	Length in Feet.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Merrimack to Laurel—Connection west of Cass	6	250	.....	250
Merrimack St., West—Elm to Canal	6	1,050	.....	1,050
Middle St.—Franklin to Canal	6	768	.....	768
Milford St.—So. Main to Sylvester	6	2,849	.....	2,849
Milford Place—South from Milford	6	232	.....	232
Mill St.—East from Front St.	6	586	.....	586
Mill Ave., Goff's Falls—West from Brown Ave.	10	84	.....	....
Mill Ave., Goff's Falls—West from 10-inch	8	464	.....	....
Mill Ave., Goff's Falls—Branch to hydrant	6	6	.....	554
Mitchell St.—Calef Rd. to Beech	6	1,354	.....	1,354
Monitor St.—Essex to Kearsarge	6	504	.....	504
Monmouth St.—East from Main	4	204	.....	204
Monroe St.—Elm to River Rd.	6	646	.....	646
Montgomery St.—Conant to Gates	6	474	.....	....
Montgomery St.—Amory to Kelley	6	602	.....	....
Montgomery St.—North from Kelley	6	227	.....	....
Montgomery St.—Mason to Amoskeag	12	2,721	.....	4,024
Morgan St.—North from Amory	6	288	.....	288
Morrison St.—Arlington to Pearl	6	370	.....	370
Myrtle St.—Elm to Pine	8	938	.....	....
Myrtle St.—Pine to Belmont	6	4,319	.....	5,257
Mystic St.—West from Beech	6	1,050	.....	1,050
Mystic Ave.—North from Longwood Ave.	6	172	.....	....
Mystic Ave.—North from Oakland Ave.	6	326	.....	498
Nashua St.—Jane to south of East High.	4	445	.....	....
Nashua St.—South from Lowell	4	125	.....	570
Nelson St.—Hall Rd. to Mammoth Rd.	6	578	.....	578
Norfolk St.—Beech to Union	6	577	.....	577
North St.—Elm to Beech	12	2,121	.....	....
North St.—Branches to hydrants	6	34	.....	2,155
North St., West—Elm to River Rd.	12	850	.....	....
North St., West—Branches to hydrants	6	55	.....	905
Notre Dame Ave.—Conant to Kelley	6	3,603	.....	3,603
Oakland Ave.—Mammoth Rd. to Mystic Ave.	6	969	.....	969
Omega St.—West from Front to Maxwell's	6	274	.....	....
Omega St.—North from Goffstown Rd.	4	643	.....	917
Oneida St.—South Main to Gilford	6	738	.....	738
Orange St.—Elm to Pine	8	930	.....	....
Orange St.—Pine to Belmont	6	4,039	.....	4,969
Orchard Ave.—Candia Rd. to Glenwood Ave.	6	1,095	.....	1,095
Page St.—Candia Rd. to near Condon	6	2,464	.....	2,464
Palmer St.—West from North River Rd.	6	48	.....	48
Park Ave.—East from Crown	6	250	.....	250
Paris St.—Delaware Ave. to Pennsylvania	6	265	.....	265
Parker Ave.—South from Parker St.	4	180	.....	180
Parker St.—South Main to Railroad tracks	4	898	.....	....
Parker St.—North from Winter to tracks.	4	150	.....	1,048
Pearl St.—Elm to Pine	8	1,012	.....	....
Pearl St.—Pine to Belmont	6	4,076	.....	5,088
Pennacook St.—Union to west of Elm	6	1,570	.....	1,570
Pennsylvania Ave.—North from Hanover	6	29	.....	....
Pennsylvania Ave.—Paris to London	6	460	.....	489
Pike St.—Southeast from Donald	6	840	.....	840
Pinard St.—Mast Rd. to Edmond	6	462	.....	462
Pine St.—Willow to Pearl	8	7,516	.....	....
Pine St.—Branches to hydrants	6	59	.....	....
Pine St.—Harrison to Brook	6	430	.....	....
Pine St.—Sagamore to Webster	6	1,600	.....	9,605

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1912.—*Continued.*

Location of Pipe.	Length in Feet.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Platts Ave.—South from Candia Rd.	6	150	.....	....
Platts Ave.—North from Candia Rd.	6	50	.....	200
Pleasant St.—Elm to Canal	6	1,076	.....	1,076
Plummer St.—Pine to Union	6	500	.....	500
Porter St.—Somerville to Hayward	12	1,220	.....	....
Porter St.—South of Hayward to Massabesic	6	592	.....	1,812
Prescott St.—East from Wilson	6	318	.....	318
Prince St.—Boynton to Huntress	6	598	.....	598
Proctor Rd.—Hanover to Candia Rd.	10	1,106	.....	1,106
Prospect St.—Elm to Belmont	6	4,640	.....	4,640
Prout Ave.—South from Hayward	6	300	.....	300
Putnam St.—Main to Dubuque	6	905	.....	....
Putnam St.—Bartlett to Whipple	6	585	.....	1,490
Quincy St.—Granite to Douglass	4	260	.....	....
Quincy St.—Douglass to Conant	6	264	.....	524
Railroad St.—Douglass to Sullivan	6	1,914	.....	1,914
Railroad St., West.—From Whipple extended across railroad tracks northwesterly	6	1,268	.....	1,268
Ray St.—Appleton to Clarke	6	854	.....	....
Ray St.—North from Carpenter	6	532	.....	1,386
Reed St.—Armory to Kelley	6	481	.....	481
Revere Ave.—Wayland to north of Glenwood	6	1,018	.....	1,018
Riddle St.—Mast Rd. to Milford	6	945	.....	945
Riley Ave.—South from Hayward	6	593	.....	593
Rimmon St.—Conant to Gates	6	500	.....	....
Rimmon St.—Columbus Ave. to Bremer	6	2,156	.....	....
Rimmon St.—North from Bremer	8	455	.....	....
Rimmon St.—Bremer to north line of Mason	12	833	.....	3,944
River Rd. (Bedford)—South from Second to Woodbury Brook	8	3,786	.....	....
River Rd.—Branch to hydrant	6	9	.....	3,795
River Rd., North—Salmon to Clarke	8	2,540	.....	....
River Rd., North—Salmon to North	12	480	.....	....
River Rd., North—Clarke to Cloyde	6	1,124	.....	....
River Rd., North—Cloyde to Olsen's, north of Union	8	9,464	.....	....
River Rd., North—Branches to hydrants.	6	86	.....	13,694
Rochelle Ave.—Mast to Charlestown Ave.	6	285	.....	285
Rockland Ave.—Mast to north of Shirley Hill	6	2,727	.....	2,727
Rosedale Ave.—East from Calef Rd.	6	435	.....	435
Rowell St.—Elm to River Rd.	8	303	.....	....
Rowell St.—Branch to State Industrial school	6	17	.....	320
Russell St.—Harrison to north of Blodgett	6	900	.....	900
Sagamore St.—Bay to Union	6	1,175	.....	....
Sagamore St.—Walnut to Smyth Rd.	6	2,641	.....	3,816
Salisbury St.—Hanover to Amherst	6	388	.....	388
Salmon St.—Liberty to Union	6	275	.....	275
Savage St.—West from River Rd.	6	38	.....	38
Schiller St.—Wentworth to Second	6	566	.....	566
School St.—Turner to South Main	6	995	.....	995
Schuyler St.—West from Main	6	215	.....	215
Second St.—Granite to School	6	340	.....	....
Second St.—Bath to near Ferry	6	175	.....	....
Second St.—Ferry to Ferry Lane	12	170	.....	....
Second St.—Ferry Lane to Cleveland	6	1,055	.....	....
Second St.—West Hancock to South Main	6	4,630	.....	6,370

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1912.—*Continued.*

Location of Pipe.	Length in Feet.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Shasta St.—East from Brown Ave.	6	60	.....	....
Shasta St.—West from Elm	6	70	.....	....
Shasta St.—Union to east of Lincoln	6	2,044	.....	....
Shasta St.—West from Hall	6	174	.....	2,348
Sheridan St.—Boynton to Donahue	6	758	.....	758
Sherman St.—Boynton to Bedel	6	429	.....	429
Shirley Hill Rd.—Mast Rd. to Rockland Ave.	6	654	.....	654
Silver St.—Pine to Hall	6	3,543	.....	3,543
Somerville St.—Union to Beech	6	526	.....	....
Somerville St.—Beech to Maple	12	650	.....	....
Somerville St.—Lincoln to Porter	12	4,535	.....	....
Somerville St.—Fire pipe for B. H. Piper Co.	6	39	.....	5,750
South St.—North of Lowell	6	97	.....	....
South St.—South of E. High to 6-inch	4	476	.....	573
Spring St.—Elm to Canal	6	752	.....	752
Springview Ave.—North from Somerville.	4	156	.....	156
Spruce St.—Elm to Chestnut	8	650	.....	....
Spruce St.—Pine to Kenney	6	6,165	.....	6,815
Stark St.—Elm to Canal	6	874	.....	874
State Industrial School—River Rd., to school for girls	6	1,284	.....	1,284
State St.—Granite to Grove	6	1,029	.....	1,029
Stevens St.—South from Baker	6	325	.....	325
Sullivan St.—West from Main	6	50	.....	....
Sullivan St.—Cartier to east of Notre Dame	4	399	.....	....
Sullivan St.—Bartlett to Railroad	6	1,054	.....	1,503
Summer St.—Dearborn to Wilson	6	1,432	.....	....
Summer St.—East of Beech.	6	131	.....	....
Summer St.—West of Beech.	6	139	.....	1,702
Sylvester St.—Milford to Forest	6	400	.....	....
Sylvester St.—South from Mast Rd.	6	170	.....	570
Taggart St.—Goffstown Rd. to Amoskeag	8	413	.....	413
Taylor St.—Vinton to Dearborn	6	4,762	.....	4,762
Thayer St.—River Rd. to east of Everett	6	305	.....	305
Theophile St.—Mast Rd. to Edmond	6	372	.....	372
Third St.—School to south of Ferry	6	442	.....	....
Third St.—South from Walker	4	357	.....	....
Third St.—Cleveland across river to Log.	8	477	.....	1,276
Thornton St.—Janelle Ave. to south of Sullivan	6	1,776	.....	1,776
Tilton St.—North from Milford	4	387	.....	....
Tilton St.—South from Bowman place to 4-inch	6	110	.....	497
Titus Ave.—Calef Rd. to Beech	8	1,493	.....	....
Titus Ave.—Branches to hydrants	6	76	.....	1,569
Trenton St.—Union to near Elm	8	1,192	.....	....
Trenton St.—Branch to hydrant	6	18	.....	1,210
Turner St.—Douglass to Ferry Lane	8	1,217	.....	....
Turner St.—Branch to hydrant	6	12	.....	....
Turner St.—South from Walker	4	240	.....	1,469
Union St.—Willow to Hayward	6	2,353	.....	....
Union St.—Concord to Lowell	4	319	.....	....
Union St.—Lowell to Bridge	6	640	.....	....
Union St.—Brook to Harrison	6	430	.....	....
Union St.—Blodgett to Clarke	6	3,340	.....	....
Union St.—Clarke to north of Stark Ave.	8	2,335	.....	....
Union St.—Arah to River Rd.	8	4,881	.....	14,298
Valley St.—Elm to Beech	12	2,096	.....	....
Valley St.—Beech to Wilson	14	1,923	.....	....
Valley St.—Wilson to Massabesic	20	3,641	.....	....

SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 31, 1912.—*Concluded.*

Location of Pipe.	Length in Feet.			
	Size in inches.	Cast iron.	Cement lined.	Totals in feet.
Valley St.—Branches to hydrants	6	121	.....	7,781
Valley St., West—West from Elm	6	125	.....	125
Victoria St.—Davis to Crown	8	256	.....	256
Vine St.—Amherst to Concord	4	340	.....	....
Vine St.—Branch to hydrant	6	39	.....	379
Vinton St.—Willow to Wilson	6	1,249	.....	....
Vinton St.—Taylor to near Cypress	6	690	.....	....
Vinton St.—West from Cypress	8	138	.....	2,077
Walker St.—Turner to South Main	6	1,308	.....	1,308
Walnut St.—Amherst to Concord	4	340	.....	....
Walnut St.—Concord to Bridge	6	995	.....	....
Walnut St.—Bridge to Pearl	4	315	.....	....
Walnut St.—North from Harrison	4	280	.....	....
Walnut St.—South from Blodgett	4	187	.....	....
Walnut St.—Blodgett to Webster	6	2,090	.....	....
Walnut St.—North from Webster	8	522	.....	....
Walnut St.—Branches to hydrants	6	55	.....	4,784
Ward St.—West from River Rd	6	44	.....	44
Warner St.—Mast St. to Wilkins	6	1,265	.....	1,265
Washington St.—Elm to Birch	4	351	.....	351
Water St.—Elm to Canal	6	736	.....	736
Wayland Ave.—East from Mammoth Rd.	8	383	.....	....
Wayland Ave.—West from Revere to 8-inch	6	202	.....	585
Wayne St.—Main to Dubuque	6	923	.....	923
Webster St.—Elm to Beech	6	2,090	.....	2,090
Webster St., West—Elm to B. & M. R. R.	6	1,248	.....	1,248
Welch Ave.—West from Calef Rd. to street line	6	10	.....	....
Welch Ave.—West from 6-inch	4	328	.....	338
Wellington Ave.—East from Mammoth Rd.	6	1,228	.....	1,228
Wentworth St.—North from Schiller St.	6	837	.....	837
West St.—Parker to Clinton	6	217	.....	....
West St.—Clinton to Douglass	4	536	.....	....
West St.—Douglass to Conant	6	300	.....	1,053
Westland Ave.—West from Brown Ave.	6	270	.....	270
Weston St.—Concord to north of Lowell	6	697	.....	....
Weston St.—East High to Bridge	6	330	.....	1,027
Wheelock St.—Hancock to Goffe	4	209	.....	209
Wilkins St.—Mast Rd. to west of Rockland Ave.	6	1,850	.....	1,850
Williams St.—North from Milford	6	250	.....	....
Williams St.—North from 6-inch	4	208	.....	458
Willow St.—Valley to Hayward	4	550	.....	....
Willow St.—Hayward to Auger Ave	8	1,185	.....	....
Willow St.—Auger Ave. to Pine	6	600	.....	....
Willow St.—Pine to Baker	8	850	.....	....
Willow St.—Beech to Shea's Place	8	3,993	.....	....
Willow St.—Branches to hydrants	6	56	.....	7,234
Wilson St.—Howe to Hanover	10	6,137	.....	....
Wilson St.—Branch to hydrant	6	10	.....	6,147
Wilton St.—Notre Dame to Cartier	6	283	.....	283
Winter St.—South Main to west of Granite	6	1,398	.....	1,398
Woodbine Ave.—Candia Rd. to north of Longwood Ave.	6	537	.....	537
Woodbury St—.East from South Main	6	44	.....	44
Woodland Ave.—North from Candia Rd. to R. R. tracks	6	1,212	.....	1,212
Woodlawn Ave.—Northeast from Londonderry Rd.	6	1,207	.....	1.207
Young St.—Somerville to Taylor St	6	2,079	.....	2,079
Youville St.—Amory to north of Kelley	6	626	.....	626

LOCATION OF GATES ON MAINS.

Street.	Location.	Size (inches).
A St.	West line of South Main	6
Adams St.	North line of Appleton	6
Adams St.	South line of Clarke	6
Adams St.	North line of Clarke	6
Adams St. (W. M.)	West line of Main	6
Adams St. (W. M.)	East line of Cartier	6
Agawam St.	West line of River Rd	8
Alfred St.	3 feet south from north line of Hanover.	6
Allen St.	West line of South Main	8
Alpine St.	North line of Dickey	6
Alsace St.	North line of Amory	6
Alsace St.	South line of Kelley	6
Alsace St.	North line of Kelley	6
Alsace St.	South line of Bremer	6
Amherst St.	East side of Elm	8
Amherst St.	West line of Pine	8
Amherst St.	East line of Pine	6
Amherst St.	West line of Beech	6
Amherst St.	East line of Beech	6
Amherst St.	West line of Ashland	6
Amherst St.	East line of Ashland	6
Amherst St.	East line of Belmont	6
Amherst St.	East line of Hall	6
Amherst St.	West line of Beacon	6
Amory St.	East line of Main	8
Amory St.	West line of Main	8
Amory St.	East line of Dubuque	8
Amory St.	Intersection of Bartlett and Amory	8
Amory St.	North line of Amory	8
Amory St.	East line of Joliette	8
Amory St.	West line of Congress	8
Amoskeag St.	East end of Amoskeag bridge	12
Amoskeag St.	South from Amoskeag St. west from east line Front	12
Amoskeag St.	West line of Front	12
Amoskeag St.	East line of Taggart	12
Amoskeag St.	On hydrant branch, Cor. Taggart	6
Amoskeag St.	On blow-off	6
Appleton St.	14 ft. east from hydrant	6
Appleton St.	18 ft. west from east line of Elm	6
Appleton St.	West line of Union	6
Arah St.	East line of Union	6
Arah St.	Near Royer's house	6
Arlington St.	East line of Maple	6
Arlington St.	West line of Ashland	6
Arlington St.	East line of Ashland	6
Ash St.	South line of Concord	4
Ash St.	9 ft. north of north line of Lowell	6
Ash St.	South line of Bridge	6
Ash St.	16½ ft. south of north line of Harrison (Valve)	2
Ash St.	North line of Brook	4
Ash St.	North line of Blodget	6
Ash St.	South line of Sagamore	6
Ash St.	North line of Sagamore	6
Ashland St.	North line of Hanover	10
Ashland St.	South line of Lowell	10
Ashland St.	North line of Lowell	10
Auburn St.	East line of Elm	8
Auburn St.	On fire service to J. Hodge's	4
Auburn St.	West line of Pine	6
Auburn St.	East line of Pine	6
Auburn St.	West line of Beech	6
Auburn St.	East line of Beech	6
Auburn St.	East line of Wilson	6
Auburn St.	West line of Belmont	6
Auburn St., West	West line of Elm	6
Auburn St., West	On fire service to machine shop	6
Auburn St., West	On fire service to Varick's storehouse	6
Auburn St., West	East line of Canal	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Avon St.	South line of Mast Rd.	6
Avon St.	South line of Dickey St.	6
B St.	North line of Prince	6
Baker St.	East line of Brown Ave.	6
Baker St.	4 ft west of hydrant between Brown Ave. and Elm	6
Baker St.	West line of Elm	6
Baker St.	East line of Elm	6
Baker St.	East line of Calef Rd.	6
Bank St.	East line of Huntress	6
Barr St.	North line of Granite	4
Barr St.	North line of Douglas	6
Bartlett St.	At junction of Amory	8
Bartlett St.	In front of house No. 473	8
Bath St.	West line of Turner	6
Bay St.	North line of Sagamore	6
Bay St.	South line of North	6
Bay St.	North line of North	6
Bay St.	South line of Webster	6
Bay St.	North line of Clarke	6
Bay St.	South line of Carpenter	6
Beacon St.	North line of Hanover	6
Beacon St.	South line of Lowell	6
Beacon St.	North line of Lowell	6
Beacon St.	South line of Bridge	6
Bedford St.	South line of Granite	10
Bedford St.	North line of Granite	6
Bedford St.	South line of Central	6
Bedford St.	North line of Central	6
Beech St.	On South line of barn opposite French cemetery	8
Beech St.	South line of Elizabeth	8
Beech St.	North line of Norfolk	8
Beech St.	North line of Mystic	8
Beech St.	North line of Mitchell	8
Beech St.	North line of Willow	8
Beech St.	South line of Shasta	8
Beech St.	North line of Shasta	8
Beech St.	On fire service to Sash & Blind shop	4
Beech St.	South of track on hydrant branch	6
Beech St.	On No. 2 fire service to Sash & Blind shop	6
Beech St.	North line of railroad fence	12
Beech St.	South line of Somerville	12
Beech St.	South line of Valley	12
Beech St.	North line of Valley	12
Beech St.	On blow-off at Green St.	6
Beech St.	South 6 ft. from south line of Lake Ave.	12
Beech St.	South line of Lake Ave.	12
Beech St.	North line of Lake Ave.	12
Beech St.	7 ft. north from north line of Lake Ave.	12
Beech St.	South line of Manchester	12
Beech St.	South of Amherst on blow-off	6
Beech St.	South line of Lowell	12
Beech St.	North line of Lowell	12
Beech St.	South line of Myrtle	12
Beech St.	North line of Brook	12
Beech St.	South of South line of Sagamore	12
Beech St.	North of north line of Sagamore	12
Beech St.	On hydrant branch at North	6
Beech St.	South line of Webster	12
Bell St.	East line of Pine	6
Bell St.	East line of Union	6
Bell St.	West line of Beech	6
Bell St.	East line of Wilson	6
Bell St. (W. M.)	East line of Second	6
Bell St. (W. M.)	West line of Wentworth	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Belmont St.	North line of Manning	6
Belmont St.	North line of Cilley Rd.	6
Belmont St.	North line of Howe	6
Belmont St.	North line of Clay on east side of Belmont	6
Belmont St.	North line of Harvard	6
Belmont St.	South line of Valley	6
Belmont St.	North line of Valley	6
Belmont St.	North line of Summer	6
Belmont St.	Near southeast corner of Massabesic	6
Belmont St.	South line of Lowell	6
Belmont St.	North line of Lowell	6
Belmont St.	South line of Bridge	6
Belmont St.	North line of Bridge	6
Belmont St.	South line of Pearl	6
Belmont St.	North line of Pearl	8
Belmont St.	North line of Prospect	8
Bennington St.	West line of Main	6
Birch St.	North line of Lowell	6
Birch St.	South line of Bridge	6
Bismark St.	North line of Milford	6
Blaine St.	East line of South Main	6
Blaine St.	West line of Second	6
Blaine St.	East line of Second	6
Blair St.	West line of Brown Ave	6
Blodgett St.	East line of Elm	6
Blodgett St.	West line of Union	6
Blodgett St.	West line of Walnut	6
Blodgett St.	West line of Beech	6
Blodgett St.	East line of Beech	6
Blodgett St.	West line of Maple	6
Blodgett St.	West line of Russell	6
Boutwell St.	North line of Amory	6
Boutwell St.	South line of Kelley	6
Boutwell St.	North line of Kelley	6
Boutwell St.	South line of Bremer	6
Bowman St.	South line of Mast St.	6
Bowman St.	North line of Milford	6
Bowman St.	South line of Milford	4
Boynton St.	South of south line of A	6
Boynton St.	North of Allen 213 ft.	6
Boynton St.	North line of Grant	8
Bremer St.	West line of Coolidge Ave	6
Bremer St.	In front of No. 49	6
Bremer St.	West line of Alsace	6
Bremer St.	West line of Laval	6
Bridge St.	East line of Elm	8
Bridge St.	West line of Chestnut	8
Bridge St.	West line of Pine	8
Bridge St.	9 ft. east from west line of Beech	6
Bridge St.	7 ft. west from east line of Beech	6
Bridge St.	West line of Maple	6
Bridge St.	West line of Russell	6
Bridge St.	West line of Ashland	6
Bridge St.	East line of Ashland	6
Bridge St.	West line of Belmont	6
Bridge St.	East line of Belmont	8
Bridge St.	West line of Highland	8
Bridge St.	West line of Mammoth R.	8
Bridge St., West	West line of Elm	8
Bridge St., West	East line of Canal	8
Bridge St., West	West line of Canal	8
Bridge St., West	Under bridge near river	8
Bridge St., West	On blow-off under bridge	6
Bridge St., West	Under bridge near west bank of river	8
Bridge St., West	East line of McGregor	8
Bridge St., Old	East line of Hall Rd.	6
Bridge St., Old	13 ft. west of above gate	6
Brock St.	North line of Milford	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Brook St.	East line of Elm	6
Brook St.	18 ft. east of west line of Chestnut	6
Brook St.	West line of Union	6
Brook St.	West line of Beech	6
Brook St.	East line of Beech	6
Brook St.	West line of Maple	6
Brook St., West	West line of Elm	6
Brook St., West	4 ft. east of east line of Canal	6
Brown Ave.	In front of No. 50 Elm	6
Brown Ave.	South of Hancock St.	6
Brown Ave.	On fire service to Tannery	6
Brown Ave.	Near Gerrish place	6
Brown Ave.	Near Webster place on hydrant branch	6
Brown Ave.	In front of Calef place, north of Beech	10
Brown Ave.	On hydrant branch, north of Brook	6
Brown Ave.	9 ft. south of above hydrant	10
Brown Ave.	North line of P. Riley land	10
Brown Ave.	On hydrant branch opposite P. Riley's barn	6
Brown Ave.	On hydrant branch south of Moore Rd.	6
Brown Ave.	On service pipe to Park	6
Brown Ave.	On hydrant branch opp. Walker's house	6
Brown Ave.	On hydrant branch north of Nettle's house	6
Brown Ave.	6 ft. south of the north line of Mill Ave.	10
Brown Ave.	On hydrant branch opposite school	6
Buzzell St.	17 ft. from north line of Lowell	6
Buzzell St.	South line of East High	6
Buzzell St.	North line of East High	4
Byron St.	West line of Brown Ave	8
Byron St.	East of McElwain	8
Byron St.	West of B & M. main line	10
C St.	East line of B	6
C St.	West line of Boynton	6
Calef road	North line of Brown Ave	10
Calef road	On hydrant branch north of Brown Ave.	6
Calef road	On service pipe to Pine Grove cemetery	4
Calef road	On hydrant branch opposite Poor's house	6
Calef road	South line of Titus Ave	10
Calef road	North line of Titus Ave	10
Calef road	On hydrant branch north of Mystic	6
Calef road	South line of Mitchell	10
Calef road	South of Harrington house	8
Calef road	North line of Baker	6
Canal St.	South line of Cedar	8
Canal St.	South line of Granite	8
Canal St.	North line of Depot	8
Canal St.	On hydrant branch north of Depot St.	6
Canal St.	South line of Merrimack	8
Canal St.	North line of Market St.	8
Canal St.	South line of Bridge	8
Canal St.	North line of Bridge	8
Canal St.	South line of Hollis	8
Canal St.	South line of Langdon	8
Canal St.	North line of Pennacook	8
Candia Rd.	On hydrant branch east of Mammoth Rd.	6
Candia Rd.	East line of Platts Ave	20
Candia Rd.	On hydrant branch east of Platts Ave	6
Candia Rd.	On hydrant branch opposite Quirin's	6
Candia Rd.	On blow-off opposite Francis' place	6
Candia Rd.	On hydrant's branch opposite Savory's	6
Candia Rd.	At Proctor Rd	10
Candia Rd.	On hydrant branch	6
Candia Rd.	South line of Hanover	10
Candia Rd.	South of Cram's house	10
Candia Rd.	North of Proctor's house	10
Candia Rd.	On hydrant branch opposite schoolhouse	6
Canton St.	South line of Lake Ave	6
Carpenter St.	West line of Union	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Carpenter St.	East line of Elm	6
Carroll St.	North line of Milford	6
Cartier St.	South line of Coolidge Ave	6
Cartier St.	North line of Amory	6
Cartier St.	South line of Wayne	6
Cartier St.	North line of Conant	6
Cass St.	North line of Lake Ave	6
Cass St.	South line of Laurel	6
Cedar St.	East line of Elm	8
Cedar St.	West line of Pine	6
Cedar St.	East line of Pine	6
Cedar St.	West line of Beech	6
Cedar St.	East line of Beech	6
Cedar St.	East line of Wilson	6
Cedar St., West	West line of Elm	6
Cedar St., West	On fire service to machine shop	6
Cedar St., West	On fire service to Manchester Supply Co.	4
Cedar St., West	East line of Canal	6
Central St.	East line of Elm	8
Central St.	West line of Pine	8
Central St.	East line of Pine	6
Central St.	West line of Beech	6
Central St.	East line of Beech	6
Central St.	West line of Maple	6
Central St.	West line of Wilson	6
Central St.	East line of Wilson	6
Central St.	West of Belmont	6
Central St.	East of Milton	6
Central St., West	West line of Elm	6
Central St., West	On fire service to Kimball's	6
Central St., West	On fire service to R. G. Sullivan's	6
Central St., West	East line of Canal	6
Central St., West	West line of Canal	6
Charlestown Ave.	West line of Rochelle Ave	6
Charlestown Ave.	East line of Rochelle Ave	6
Chase Ave.	North line of Hospital Ave	6
Chase Ave.	South line of Hayes Ave	6
Chestnut St.	North line of Cedar	4
Chestnut St.	South line of Lake Ave	6
Chestnut St.	North line of Central	4
Chestnut St.	South line of Merrimack	4
Chestnut St.	North line of Merrimack	4
Chestnut St.	South line of Hanover	4
Chestnut St.	11 ft. south of north line of Hanover	4
Chestnut St.	5 ft. south of south line of Amherst	4
Chestnut St.	North line of Lowell	6
Chestnut St.	South line of Bridge	6
Chestnut St.	7 ft. south of north line of Bridge	6
Chestnut St.	North line of Pearl	8
Chestnut St.	6 ft south of north line of Orange	8
Chestnut St.	6 ft. north of north line of Myrtle	8
Chestnut St.	7 ft. south of north line of Prospect	8
Chestnut St.	8 ft. south of north line of Harrison	8
Chestnut St.	8 ft. south of north line of Brook	6
Chestnut St.	North line of Sagamore	6
Chestnut St.	South line of North	6
Chestnut St.	North line of North	6
Chestnut St.	South line of Webster	6
Chestnut St.	2 ft. south of north line of Appleton	6
Chestnut St.	South line of Clarke	6
Chestnut St.	North line of Clarke	6
Chestnut St.	South line of Carpenter	6
Chestnut St.	North line of Carpenter	6
Cilley Rd.	West line of Mammoth Rd	8
Cilley Rd.	East line of Taylor	6
Cilley Rd.	West line of Taylor	[illegible]
Cilley Rd.	West line of Belmont	6
Clarke St.	West line of Elm	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Clarke St.	East line of Elm	6
Clarke St.	West line of Union	6
Clay St.	West line of Wilson	6
Clay St.	East line of Wilson	6
Clay St.	West line of Hall	6
Clay St.	East line of Taylor	6
Clay St.	West line of Jewett	6
Clement St.	South line of Dickey	6
Cleveland St.	East line of Second	6
Cleveland St.	West line of Second	6
Clinton St.	West line of Main	6
Clinton St.	East line of West	6
Clough Ave.	South line of Spruce	6
Cody St.	North line of Candia Rd	6
Cohas Ave.	On hydrant branch	6
Cohas Ave.	Inside fence at reservoir	24
Cohas Ave.	To connect Mammoth Rd	8
Cohas Ave.	Top of hill near reservoir	24
Cohas Ave.	On hydrant branch	6
Cohas Ave.	At Dickey Rd	24
Cohas Ave.	North from station	20
Cohas Ave.	On blow-off at brook	8
Cohas Ave.	On blow-off at station	6
Cohas Ave.	On hydrant branch	6
Colby St.	At corner of Log	8
Columbus St.	South line of Amory	6
Conant St.	West line of Main	6
Conant St.	8 ft. west of west line of Barr	6
Conant Rd.	South line of Derry Rd	6
Conant Rd.	On hydrant branch at schoolhouse	6
Conant Rd.	On hydrant branch, Page's	6
Concord St.	East line of Elm	8
Concord St.	8 ft. east of west line of Pine	6
Concord St.	East line of Pine	6
Concord St.	West line of Beech	6
Concord St.	East line of Beech	6
Concord St.	In front of High school	6
Concord St.	West line of Maple	6
Concord St.	West line of Ashland	6
Concord St.	East line of Ashland	6
Concord St.	West line of Beacon	6
Concord St.	East line of Beacon	6
Congress St.	South line of Amory	6
Coolidge Ave.	North line of Kelley	8
Coolidge Ave.	South line of Bremer	8
Cove St.	26 ft. west of West line of Elm	12
Cove St.	On hydrant branch at Gas Works	6
Cove St.	At Gas Works	12
Cove St.	East of River	12
Cumberland St.	South line of Amory	6
Cypress St.	South line of Spruce	6
Cypress St.	North line of Valley	6
Cypress St.	South line of Valley	6
Cypress St.	South line of Young	6
Cypress St.	North line of Somerville	6
Cypress St.	South line of Somerville	6
Cypress St.	North line of Vinton	6
D St.	West line of Mast Rd.	6
Dartmouth St.	South line of West Hancock	6
Davignon St.	20 ft. north of north line of Pinard	6
Dean St.	15 ft. east of west line of Elm	6
Dean St.	6 ft. west of east line of Canal	6
Dearborn St.	West line of Taylor	6
Delaware Ave.	North line of Hanover	6
Depot St.	16 ft east of west line of Elm	14
Depot St.	On hydrant branch, Cor. of Elm	6
Depot St.	On hydrant branch west of Franklin	6
Derry Rd.	On hydrant branch east of Mammoth Rd.	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Derry Rd.	East of hydrant	8
Derry Rd.	South line of Dickey Rd.	6
Derry Rd.	On hydrant branch north of Page's	6
Derry Rd.	South of hydrant	6
Derry Rd.	East line of Conant Rd.	6
Derry Rd.	On hydrant branch near Mentor brook	6
Dickey St.	East line of Sylvester	6
Dickey Rd.	In line with south line of Bird's house	8
Dickey Rd.	On hydrant branch north of Dunbar house	6
Dickey Rd.	On hydrant branch, Cor. Cohas Ave.	6
Dickey Rd.	West line of Cohas Ave.	8
Dickey Rd.	East line of Cohas Ave.	8
Dix St.	East line of Maple	6
Dix St.	East line of Lincoln	6
Dix St.	West line of Wilson	6
Dix St.	East line of Wilson	6
Dix St.	West line of Hall	6
Dix St.	East line of Taylor	6
Donahue St.	North line of Sheridan	6
Donald St.	South line of Milford	6
Donald St.	West of Pike	8
Douglas St.	East line of Railroad	6
Douglas St.	East line of Barr	6
Douglas St.	West line of Main	6
Douglas St.	East line of Main	6
Douglas St.	West line of Turner	6
Dover St.	South line of Granite	4
Dover St.	6 ft. south of south line of Douglas	4
Dubuque St.	North line of Conant	6
Dubuque St.	South line of Amory	6
Dubuque St.	North line of Amory	6
Dubuque St.	North line of Kelley	6
Dubuque St.	South line of Bremer	6
Dunbarton Rd.	Inside fence, northwest Cor. Front St.	6
Dutton St.	North line of Amherst	4
Eddy Rd.	Near North end of Coolidge Mill yard	10
Eddy Rd.	On blow-off to Eddy	8
Eddy Rd.	On hydrant branch near slaughter house	6
Eddy Rd.	South of Mill St.	10
Edgemere Ave.	East line of Calef Rd.	6
Edmond St.	South line of Henriette	6
Elm St.	On hydrant branch south of Baker	6
Elm St.	South line of Baker	12
Elm St.	South line of Brown Ave.	12
Elm St.	On hydrant branch at Gas Works	6
Elm St.	South line of Cove	12
Elm St.	North line of Valley	14
Elm St.	On hydrant branch opposite Grove	6
Elm St.	On hydrant branch opposite Green	6
Elm St.	On hydrant branch opposite Summer	6
Elm St.	North line of Auburn	14
Elm St.	South line of Lake Ave.	14
Elm St.	North line of Depot	14
Elm St.	South line of Central	14
Elm St.	North line of Merrimack	14
Elm St.	On hydrant branch north of Dean Ave.	6
Elm St.	South line of Stark	14
Elm St.	South line of Water	14
Elm St.	South line of Lowell	14
Elm St.	North line of Lowell	14
Elm St.	South line of Kidder	14
Elm St.	South line of Brook	14
Elm St.	On hydrant branch north of Salmon	6
Elm St.	South line of Appleton	14
Elm St.	North line of Clarke	14
Elm St.	On hydrant branch at Thayer	6
Elm St.	At Thayer St.	14
Elm St.	South line of Carpenter	14

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Elm St.	South line of Trenton	14
Elm St.	On hydrant branch north of Trenton	6
Elm St.	On hydrant branch south of Rowell	6
Elm St.	South line of Rowell	12
Elmhurst Ave.	East line of Calef Rd.	6
Erie St.	West line of South Main	6
Erie St.	East line of Boynton	8
Essex St.	South line of Amory	6
Everett St.	South line of Clarke	4
Everett St.	North line of Clarke	4
Falls Ave.	East line of Falls Rd.	6
Falls Rd.	At Massabesic	6
Ferry St.	20 ft. east of east line of South Main	12
Fibre St.	East line of Front	6
Forest St.	South line of Mast	6
Forest St.	North line of Sylvester	6
Foster Ave.	North line of Hayward St.	4
Fourth St.	South line of Walker	6
Franklin St.	South line of Cedar	6
Franklin St.	North line of Cedar	6
Franklin St.	South line of Depot	6
Franklin St.	13 ft. south of north line of Depot	6
Franklin St.	7½ ft. south of north line of Merrimack	6
Franklin St.	South line of Market	6
Frederick St.	West line of Second	6
Frederick St.	West line of Dartmouth	6
Front St.	At Goffstown Rd.	8
Front St.	Opposite Maxwell's garage near bridge	8
Garmon St.	North line of Hanover	6
Gates St.	East line of Rimmon	6
Gates St.	West line of Cartier	6
George St.	North line of Milford	8
Gertrude St.	12 ft. south of north line of Hanover	6
Gilford St.	South line of Erie	8
Glendale St.	West line of Jewett	6
Glenwood Ave. (E. M.)	East line of Hall Rd.	6
Glenwood Ave. (E. M.)	On fire service to Shoe shop	6
Glenwood Ave. (E. M.)	On fire service to Shoe shop	6
Glenwood Ave. (E. M.)	At Mammoth Rd.	6
Glenwood Ave. (E. M.)	West line of Woodland Ave.	6
Glenwood Ave. (E. M.)	East line of Page	6
Glenwood Ave. (E. M.)	West line of Lovering	6
Goffe St.	East line of Main	6
Goffe St.	East line of Dartmouth	6
Goffstown Rd.	West line of Front	6
Goffstown Rd.	West of Omega	6
Goffstown Rd.	On service pipe to cemetery	4
Goffstown Rd.	West of Hanscom's place	6
Gold St.	At branch at Calef Rd.	6
Granite St.	West line of Elm	6
Granite St.	East line of Canal	6
Granite St.	West of B. & M. track	14
Granite St.	On 14" to A. M. Co. yard	14
Granite St.	Opposite New Print Works	8
Granite St.	On hydrant branch east of Bridge	6
Granite St.	East end of Bridge	8
Granite St.	West end of Bridge	8
Granite St.	East of west line of Turner	6
Granite St.	West line of Turner	10
Granite St.	East line of Main	10
Granite St.	West line of Main	6
Granite St.	West line of West	6
Granite St.	North line of Winter	4
Green St. (E. M.)	East line of Pine	6
Green St. (E. M.)	East line of Union	6
Green St. (E. M.)	East line of Wilson	6
Green St. (W. M.)	North line of Douglas	6
Green St. (W. M.)	North line of Granite	4

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Grove St.	East line of Pine	6
Grove St.	West line of Beech	6
Grove St.	East line of Wilson	6
Grove St.	East line of Belmont	6
Hall St.	North line of Cilley Rd	6
Hall St.	South line of Dix	6
Hall St.	North line of Silver	6
Hall St.	North line of Harvard	8
Hall St.	On fire service to Shoe shop	6
Hall St.	On fire service to Shoe shop	6
Hall St.	South line of Cedar	6
Hall St.	North line of Bridge	6
Hall Rd.	South of Shoe shop	6
Hall Rd.	On fire service to Wrapper factory	4
Hall Rd.	South line of Nelson	6
Hall Rd.	South line of Benton	6
Hancock St.	West line of Brown Ave	6
Hancock St.	On hydrant branch 275 ft. west of Hamilton	6
Hancock St.	On hydrant branch at Brewery	6
Hancock St., West	East line of South Main	6
Hancock St., West	On fire service to Craft's shop	6
Hancock St., West	On fire service to Craft's shop	4
Hancock St., West	On fire service to Green's shop	6
Hancock St., West	Opposite No. 67 Hancock	6
Hanover St.	East line of Elm	8
Hanover St.	On fire service to Odd Fellows block	6
Hanover St.	West line of Chestnut	8
Hanover St.	West line of Pine	8
Hanover St.	East line of Pine	6
Hanover St.	East line of Union	6
Hanover St.	West line of Beech	6
Hanover St.	East line of Beech	6
Hanover St.	West line of Ashland	6
Hanover St.	East line of Wilson	6
Hanover St.	West line of Belmont	6
Hanover St.	West of west line of Beacon	6
Hanover St.	East of hydrant, east of Alfred	6
Hanover St.	West line of Mammoth Rd	6
Hanover St.	East line of Mammoth Rd	10
Hanover St.	At Lake Ave	10
Hanover St.	At Lake Ave	10
Hanover St.	On branch to blow-off	6
Hanover St.	On branch to blow-off, Bell orchard	6
Hanover St.	At Bell orchard	10
Harriman St.	South line of Sheridan	6
Harriman St.	North line of Sheridan	6
Harrington St.	West line of Calef Rd	6
Harrison St	East line of Elm	6
Harrison St	West line of Pine	6
Harrison St	West line of Beech	6
Harrison St	East line of Beech	6
Harrison St	West line of Russell	6
Harrison St	West line of Linden	6
Harrison St	East line of Linden	6
Harrison St	West line of Hall	6
Harvard St.	East line of Beech	6
Harvard St.	West line of Wilson	6
Harvard St.	East line of Wilson	6
Harvard St.	West line of Belmont	6
Harvell St.	East line of South Main	6
Hayes Ave.	North line of Massabesic	6
Hayward St.	East line of Pine	6
Hayward St.	West line of Beech	6
Hayward St.	East line of Beech	6
Hayward St.	West line of Lincoln	6
Hayward St.	On fire service to Leighton's	6
Hayward St.	West line of Wilson	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Hayward St.	West line of Hall	6
Hayward St.	East line of Belmont	6
Hayward St.	East line of Taylor	6
Hayward St.	West line of Jewett	6
Hayward St.	West line of Mason	6
Hayward St.	West line of Mammoth Rd	12
Hazel St.	North line of Harrison	4
Head St.	North line of Mast	6
Head St.	On hydrant branch north of Dunham	6
Head St.	On hydrant branch south of McClintock	6
Henriette St.	East line of Mast	6
Hevey St.	North line of Conant	6
Hevey St.	South line of Amory	6
Hevey St.	North line of Amory	6
Hevey St.	South line of Kelley	6
Hevey St.	North line of Kelley	6
Hevey St.	South line of Bremer	6
Hevey St.	South line of Mason	6
High St.	West line of Pine	4
High St.	East line of Pine	4
High St.	West line of Union	4
High St., East	East line of Maple	6
High St., East	West line of Ashland	6
High St., East	East line of Ashland	6
High St., East	West line of Belmont	6
High St., East	East line of Belmont	6
High St., East	East line of Beacon	6
High service station	West of station	20
High service station	West of station	20
High service station	On branch to blow-off at station	10
High service station	On branch to hydrant at station	6
Highland St.	North line of Hanover	6
Highland St.	North line of Lowell	6
Highland St.	South line of Bridge	6
Highland Ave.	South line of Wilkins	6
Highland Park Ave.	North line of Candia Rd	6
Hillcrest Ave.	East line of Brown Ave	6
Hillcrest Ave.	West line of Calef Rd	6
Hollis St.	East of west line of Elm	6
Hollis St.	West of A. L. Co's office	6
Hollis St.	East line of Canal	6
Holly Ave.	West line of Cypress	6
Holly Ave.	East line of Taylor	6
Holly Ave.	West line of Taylor	6
Hosley St.	North line of Grove	6
Howe St.	East line of Maple	6
Howe St.	East line of Lincoln	6
Howe St.	West line of Wilson	6
Howe St.	East line of Wilson	6
Hubbard St	South line of Concord	6
Jane St.	North line of Lowell	4
Jane St.	East line of Nashua	4
Jewett St.	North line of Valley	6
Jewett St.	South line of Valley	6
Jewett St.	South line of Hayward	8
Jewett St.	North line of Somerville	8
Joliette St.	North line of Amory	6
Joliette St.	South line of Kelley	6
Joliette St.	North line of Kelley	6
Joliette St.	South line of Bremer	6
Jones St.	North line of Nelson	6
Kearsarge St.	South line of Amory	6
Kelley St.	West line of Coolidge Ave	6
Kelley St.	West line of Dubuque	6
Kelley St.	East line of Laval	6
Kelley St.	East line of Morgan	6
Kennedy St.	West line of Brown Ave	6
Kidder St.	West line of Elm	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Kidder St.	East line of Canal	6
Kidder Court	East from west line of Elm on hydrant branch	6
Kidder Court	West line of Elm	6
Knowlton St.	South line of Hayward	6
Lafayette St.	North line of Amory	6
Lafayette St.	South line of Kelley	6
Lafayette St.	North line of Kelley	6
Lake Ave.	East line of Elm	20
Lake Ave.	On hydrant branch east of Elm	6
Lake Ave.	On hydrant branch west of Chestnut	6
Lake Ave.	On hydrant branch west of Union	6
Lake Ave.	East of west line of Beech	20
Lake Ave.	On hydrant branch west of Maple	6
Lake Ave.	On hydrant branch west of Lincoln	6
Lake Ave.	East of west line of Wilson	20
Lake Ave.	West line of Hall	6
Lake Ave.	East of east line of Canton	6
Lake Ave.	East of east line of Kenney	6
Lake Ave.	East line of Mammoth Rd	6
Lake Ave.	At Hanover St.	6
Lake Shore Rd.	On hydrant branch	6
Lamprey St.	East line of Rockland Ave	6
Langdon St.	East of west line of Elm	6
Langdon St.	East line of Canal	6
Laurel St.	West line of Pine	6
Laurel St.	East line of Pine	6
Laurel St.	West line of Beech	6
Laurel St.	East line of Beech	6
Laurel St.	West of west line of Maple	6
Laurel St.	West line of Wilson	6
Laurel St.	East line of Wilson	6
Laurel St.	West line of Hall	6
Laurel St.	East line of Beacon	6
Laurel St.	East line of Cass	6
Laval St.	North line of Amory	6
Laval St.	South line of Kelley	6
Laval St.	North line of Kelley	6
Laval St.	South line of Bremer	6
Liberty St.	North line of North	6
Lincoln St	North line of Merrimack	6
Lincoln St	South line of Amherst	4
Lingard St.	West line of Willow	6
London St.	East line of Maryland Ave	6
Londonderry Rd.	At Brown Ave	8
Londonderry Rd.	On hydrant branch opposite Melrose house	6
Londonderry Rd.	On hydrant branch west of Woodlawn Ave.	6
Londonderry Rd.	East line of Woodlawn Ave	8
Londonderry Rd.	East of second hydrant, east of Woodlawn Ave.	8
Londonderry Rd.	East of third hydrant, east of Woodlawn Ave.	8
Longwood Ave.	West of east line of Mammoth Rd	6
Longwood Ave.	West line of Woodbine Ave	6
Lowell St.	East line of Elm	12
Lowell St.	East of Elm on hydrant branch	6
Lowell St.	East line of Pine	12
Lowell St.	On hydrant branch west of Beech	6
Lowell St.	East of west line of Beech	12
Lowell St.	East line of Beech	12
Lowell St.	On hydrant branch west of Ash	6
Lowell St.	On blow-off branch, east line of Maple	6
Lowell St.	On hydrant branch west of Jane	6
Lowell St.	On hydrant branch west of Malvern	6
Lowell St.	On hydrant branch west of Ashland	6
Lowell St.	West line of Ashland	12
Lowell St.	East line of Ashland	12

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Lowell St.	On hydrant branch west of Hall	6
Lowell St.	On hydrant branch west of Belmont	6
Lowell St.	On hydrant branch west of Beacon	6
Lowell St.	On hydrant branch west of Weston	6
Lowell St.	On hydrant branch west of Highland	6
Lowell St.	West line of Highland	12
Lowell St.	West line of Mammoth Rd	12
McDuffie St.	West line of Boynton	6
McElwain St.	South line of Byron	6
McGregor St.	West of east line of Main	6
McGregor St.	On branch to A. M. Co., south of Amory back street	6
McGregor St.	South line of Amory	6
McGregor St.	East line of Main	6
McNeil St.	East line of Second	6
Main St.	North line of Amory	10
Main St.	South of Wayne	10
Main St.	On branch to A. M. Co., south of McGregor	6
Main St.	South line of Wilton	10
Main St.	North of north line of Granite	10
Main St.	North of north line of Clinton	10
Main St.	South line of Ferry	10
Main St.	North line of Blaine	10
Main St.	South line of Winter	10
Main St.	South of stone bridge	10
Main St.	South of Log	10
Main St.	North line of Goffe	10
Main St.	South line of A	10
Main St.	North line of Allen	10
Main St.	Opposite No. 686	10
Main St.	West line of Second	10
Malvern St.	North line of Concord	4
Malvern St.	South line of East High	4
Malvern St.	South line of Bridge	4
Mammoth Rd.	South of Mooresville Rd	8
Mammoth Rd.	South of Mooresville Rd. on hydrant branch	6
Mammoth Rd.	North of Mooresville Rd. on hydrant branch	6
Mammoth Rd.	South of Garland house	8
Mammoth Rd.	North of Kimball's house on hydrant branch	6
Mammoth Rd.	185 ft. south of Cohas Ave	8
Mammoth Rd.	175 ft. south of Cohas Ave. on hydrant branch	6
Mammoth Rd.	South of Mercy home on hydrant branch	6
Mammoth Rd.	South line of Wayland Ave	20
Mammoth Rd.	On branch to blow-off at Cemetery brook	6
Mammoth Rd.	On branch to blow-off at Nelson St	6
Mammoth Rd.	On branch to blow-off north of Willard	6
Mammoth Rd.	South line of Lake Ave	20
Mammoth Rd.	On hydrant branch north of Isolation hospital	6
Mammoth Rd.	On hydrant branch south of Lowell	6
Mammoth Rd.	South line of Lowell	20
Mammoth Rd.	South line of Old Bridge	6
Manchester St.	East line of Elm	8
Manchester St.	West line of Chestnut	8
Manchester St.	West line of Pine	6
Manchester St.	East line of Pine	6
Manchester St.	West line of Union	6
Manchester St.	West line of Beech	6
Manchester St.	East line of Beech	6
Manchester St.	West line of Lincoln	6
Manchester St.	West line of Wilson	6
Manchester St.	East line of Wilson	6
Maple St.	North line of Shasta	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Maple St.	South line of Somerville	6
Maple St.	South line of Concord	6
Maple St.	North line of Concord	6
Maple St.	North line of Lowell	6
Maple St.	North line of Nashua	6
Maple St.	South line of Bridge	6
Maple St.	North line of Bridge	10
Maple St.	South line of Myrtle	10
Maple St.	South line of Prospect	10
Maple St.	North line of Harrison	4
Maple St.	North line of Blodget	6
Marion St.	West line of McGregor	6
Marion St.	East line of Main	6
Market St.	West line of Elm	6
Market St.	West of Hampshire Lane	6
Market St.	On fire service to N. H. Insurance Bldg.	6
Market St.	East of east line of Canal	6
Mason St.	West line of Rimmon	12
Mason St.	On hydrant branch at Rimmon	6
Massabesic St.	Connection between high and low service	20
Massabesic St.	On hydrant branch west of Mammoth Rd	6
Massabesic St.	East of No. 773	20
Massabesic St.	On branch to blow-off	6
Massabesic St.	West of Culvert	20
Massabesic St.	West of culvert on hydrant branch	6
Massabesic St.	West of Taylor on hydrant branch	6
Mast St.	West line of Main	6
Mast St.	West line of Bowman	6
Mast St.	East line of Head	6
Mast Rd.	North of north line of Mast	6
Mast Rd.	South of North line of Fogg Ave	6
Mast Rd.	At Lamprey St.	8
Mast Rd.	North of Barnard's house	8
Mast Rd.	South of blacksmith shop	8
Mast Rd.	South line of Theophile	8
Mead St.	West line of Belmont	6
Mechanic St.	West line of Elm	6
Mechanic St.	East line of Canal	6
Merrill St.	East line of Jewett	6
Merrimack St.	East line of Elm	8
Merrimack St.	West line of Pine	8
Merrimack St.	East line of Pine	6
Merrimack St.	West of west line of Union	6
Merrimack St.	West line of Beech	6
Merrimack St.	East line of Beech	6
Merrimack St.	East line of Maple	6
Merrimack St.	West line of Wilson	6
Merrimack St.	East line of Wilson	6
Merrimack St.	West line of Belmont	6
Merrimack St.	West line of Beacon	6
Merrimack St.	East line of Beacon	6
Merrimack St.	West of Cass St.	6
Merrimack St.	In front of No. 557	6
Merrimack St.	At Hanover	6
Merrimack to Laurel connection	South line of Merrimack	6
Merrimack to Laurel connection	North line of Laurel	6
Merrimack St., West	West line of Elm	6
Merrimack St., West	West of east line of Canal	6
Middle St.	West line of Franklin	6
Middle St.	East line of Canal	6
Milford St.	West line of South Main	6
Milford St.	West line of Tilton	6
Milford St.	East line of Hillside Ave	6
Milford Place	South line of Milford	6
Mill St.	East of east line of Front	6
Mill St.	In Old Paper Mill yard	6
Mill Ave.	On hydrant branch at end of pipe	6
Mitchell St.	East line of Calef Rd	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Mitchell St.	West line of Beech	6
Monitor St.	West line of Essex	6
Monroe St.	East of west line of Elm	6
Monroe St.	East line of North River Rd	6
Montgomery St.	North line of Conant	6
Montgomery St.	North line of Amory	6
Montgomery St.	South line of Kelley	6
Montgomery St.	North line of Kelley	6
Morgan St.	North line of Amory	6
Myrtle St.	East line of Elm	8
Myrtle St.	West line of Pine	6
Myrtle St.	West line of Beech	6
Myrtle St.	East line of Beech	6
Myrtle St.	West line of Maple	6
Myrtle St.	East line of Maple	6
Myrtle St.	West line of Linden	6
Myrtle St.	East line of Linden	6
Myrtle St.	West line of Hall	6
Mystic St.	West line of Beech	6
Mystic Ave.	North line of Longwood Ave	6
Nashua St.	South line of Lowell	4
Nelson St.	East line of Hall Rd	6
Nelson St.	East of west line of Mammoth Rd	6
Norfolk St.	West line of Beech	6
Norfolk St.	Near hydrant	6
North St.	East line of Elm	12
North St.	On hydrant branch west of Chestnut	6
North St.	West line of Beech	12
North St., West	West line of Elm	12
North St., West	On hydrant branch Cor. Elm	6
North St., West	East line of North River Rd	12
North St., West	At North River Rd	6
Notre Dame Ave.	North line of Conant	6
Notre Dame Ave.	South line of Adams	6
Notre Dame Ave.	North line of Sullivan	6
Notre Dame Ave.	South line of Amory	6
Notre Dame Ave.	North line of Amory	6
Oakland Ave.	40 ft. west of east line of Mammoth Rd.	6
Oakland Ave.	West line of Revere	6
Oakland Ave.	West line of Mystic	6
Omega St.	West line of Front	6
Omega St.	North of North line of Goffstown Rd	4
Oneida St.	West line of South Main	6
Orange St.	East line of Elm	8
Orange St.	West line of Pine	6
Orange St.	West line of Beech	6
Orange St.	East line of Beech	6
Orange St.	West line of Maple	6
Orange St.	East line of Maple	6
Orange St.	West line of Linden	6
Orange St.	West line of Hall	6
Orange St.	West line of Belmont	6
Orchard Ave.	North line of Candia Rd	6
Orchard Ave.	North line of Oakland Ave	6
Page St.	North line of Candia Rd	6
Page St.	On fire service to Shoe shop	4
Page St.	South line of Hanover	6
Page St.	North line of Hanover	6
Palmer St.	West line of North River Rd	6
Park Ave.	East line of Crown	6
Paris St.	East line of Pennsylvania Ave	6
Parker Ave.	South line of Parker	4
Parker St.	West line of Main	4
Parker St.	North line of Winter	4
Pearl St.	15 ft. west of east line of Elm	8
Pearl St.	West line of Pine	8
Pearl St.	East line of Pine	6
Pearl St.	West line of Union	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Pearl St.	West line of Beech	6
Pearl St.	East line of Beech	6
Pearl St.	West line of Maple	6
Pearl St.	East line of Maple	6
Pearl St.	West line of Ashland	6
Pearl St.	East line of Ashland	6
Pearl St.	West line of Hall	6
Pennacook St.	East line of Elm	6
Pennacook St.	20 ft. east of west line of Elm	6
Pennsylvania Ave.	North line of Hanover	6
Pike St	South line of Donald	6
Pinard St.	East line of Mast Rd	6
Pine St.	South line of Valley	8
Pine St.	North line of Valley	8
Pine St.	North line of Auburn	8
Pine St.	South line of Lake Ave	8
Pine St.	6 ft. south of north line of Lake Ave	8
Pine St.	North line of Lake Ave	8
Pine St.	North line of Merrimack	8
Pine St.	North line of Hanover	8
Pine St.	North line of Concord	8
Pine St.	South line of Lowell	8
Pine St.	North line of Lowell	8
Pine St.	South line of Bridge	8
Pine St.	8 ft. south of North line of Bridge	8
Pine St.	North line of Harrison	6
Pine St.	North line of Sagamore	6
Pine St.	South line of North	6
Pine St.	North line of North	6
Platts Ave.	South line of Candia Rd	6
Platts Ave.	North line of Candia Rd	6
Pleasant St.	West line of Elm	6
Pleasant St.	West of west line of Franklin	6
Pleasant St.	West of east line of Canal	6
Plummer St.	East line of Pine	6
Porter St.	On hydrant branch south of Hayward	6
Porter St.	South line of Hayward	12
Porter St.	South line of Hayward	6
Porter St.	North line of Hayward	6
Prescott St.	East line of Wilson	6
Prince St.	West Line of Boynton	6
Proctor Rd.	7 ft. northwest of line of stone wall	10
Prospect St.	East line of Elm	6
Prospect St.	West line of Pine	6
Prospect St.	West line of Beech	6
Prospect St.	West line of Maple	6
Prospect St.	East line of Maple	6
Prospect St.	East line of Beech	6
Prospect St.	West line of Russell	6
Prospect St.	West line of Linden	6
Prospect St.	East line of Linden	6
Prospect St.	West line of Hall	6
Prout Ave.	South line of Hayward	6
Putnam St.	West line of Main	6
Putnam St.	10 ft. west of west line of Notre Dame Ave.	6
Putnam St.	East line of Dubuque	6
Putnam St.	West line of Bartlett	6
Putnam St.	West line of Thornton	6
Quincy St.	North line of Granite	4
Quincy St.	North line of Douglas	6
Railroad St.	South of Knoettner's house	6
Railroad St., West	Near shed	6
Railroad St., West	North of Koehler St	6
Ray St.	North line of Appleton	6
Ray St.	South line of Clarke	6
Ray St.	North line of Carpenter	6
Ray St.	South line of Trenton	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Reed St.	South line of Kelley	6
Revere Ave.	South line of Longwood	6
Revere Ave.	North line of Longwood	6
Revere Ave.	North line of Oakland	6
Riddle St.	South line of Mast	6
Riley Ave.	South line of Hayward	6
Rimmon St	North line of Conant	6
Rimmon St	South line of Amory	6
Rimmon St	North line of Amory	6
Rimmon St	North line of Kelley	6
Rimmon St	North line of Bremer	8
Rimmon St	North line of Bremer	12
River Rd. (Bedford)	East line of Second	8
River Rd. (Bedford)	62 ft. north of Currier's house	8
River Rd. (Bedford)	On hydrant branch near Woodbury's brook	6
River Rd., North	South line of North	8
River Rd., North	South of culvert	8
River Rd., North	South of No. 564	8
River Rd., North	South line of Ready	8
River Rd., North	South line of Clarke	8
River Rd., North	North line of Clarke house	8
River Rd., North	South line of Rowell	8
River Rd., North	North line of Rowell	8
River Rd., North	On line of wall between Rowell's and State land	8
River Rd., North	South line of Palmer	8
River Rd., North	North line of Savage	8
River Rd., North	North line of Arizona	8
River Rd., North	On hydrant branch at Arizona St.	6
River Rd., North	On hydrant branch front of Stark school	6
River Rd., North	Front of Farrell house	8
River Rd., North	On hydrant branch front of Farrell house.	6
River Rd., North	On hydrant branch at Preston's house	6
River Rd., North	Corner Union St., on hydrant branch	6
River Rd., North	West line of Union St.	8
Rochelle Ave.	South line of Mast	6
Rockland Ave.	South line of Kingston	6
Rockland Ave.	South line of Wilkins	6
Rockland Ave.	North line of Wilkins	6
Rockland Ave.	South line of Shirley Hill Rd.	6
Rosedale Ave.	East line of Calef Rd.	6
Rowell St.	West line of Elm	8
Rowell St.	West line of River Rd.	6
Russell St.	North line of Harrison	6
Russell St.	South line of Blodget	6
Russell St.	North line of Blodget	6
Sagamore St.	West line of Union	6
Sagamore St.	West line of Beech	6
Sagamore St.	East line of Beech	6
Sagamore St.	West line of Oak	6
Sagamore St.	West line of Linden	6
Salisbury St.	North line of Hanover	6
Savage St.	West line of River Rd.	6
Schiller St.	West line of Wentworth	6
School St.	West line of Turner	6
School St.	East line of Main	6
Schuyler St.	West line of Main	6
Second St.	South line of Granite	6
Second St.	North line of School	6
Second St.	South line of Bath	6
Second St.	South of south line of Ferry Lane	6
Second St.	South line of Hancock	6
Second St.	South line of Frederick	6
Second St.	North line of Schiller	6
Second St.	South of Harvell	6
Second St.	On line between Fletcher and McQuestion land	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Second St.	North of South Main	6
Shasta St.	East line of Brown Ave	6
Shasta St.	West line of Elm	6
Shasta St.	West line of Beech	6
Shasta St.	East line of Beech	6
Shasta St.	West line of Maple	6
Shasta St.	East line of Lincoln	6
Shasta St.	West line of Hall	6
Sheridan St.	Southeast line of Boynton	6
Sherman St.	Northwest line of Boynton	6
Shirley Hill Rd.	West line of Mast	6
Silver St.	East line of Pine	6
Silver St	West line of Beech	6
Silver St	East line of Beech	6
Silver St	On fire service to Eureka Shoe shop	6
Silver St	On fire service to Hoyt's Shoe shop	6
Silver St	West line of Wilson	6
Silver St	East line of Wilson	6
Somerville St.	East line of Union	6
Somerville St.	West line of Beech	6
Somerville St.	East line of Beech	12
Somerville St.	On fire service to B. H. Piper Co	6
Somerville St.	West line of Wilson	12
Somerville St.	East line of Wilson	12
Somerville St.	West line of Taylor	12
Somerville St.	East line of Taylor	12
Somerville St.	West line of Jewett	12
Somerville St.	East line of Jewett	12
Somerville St.	On hydrant branch east of Young	6
Somerville St.	On hydrant branch west of Porter	6
Somerville St.	West line of Porter	12
South St.	North line of Lowell	6
South St.	South line of High	4
Spring St.	West line of Elm	6
Spring St.	East line of Canal	6
Springview Ave.	North line of Somerville	4
Spruce St.	East line of Elm	8
Spruce St.	East line of Pine	6
Spruce St.	West line of Beech	6
Spruce St.	East line of Beech	6
Spruce St.	West line of Maple	6
Spruce St.	West line of Wilson	6
Spruce St.	East line of Wilson	6
Spruce St.	West of Beacon near the brook	6
Spruce St.	West line of Canton	6
Spruce St.	East line of Canton	6
Stark St.	West line of Elm	6
Stark St.	East line of Canal	6
State Industrial School, Girls' School	West line of North River Rd	6
State St.	South of Granite in front of boiler house	6
State St.	South line of Granite	6
State St.	North line of Granite	6
State St.	North of south line of Central	6
Stevens	South line of Baker	6
Sullivan St.	West line of Main	6
Sullivan St.	East line of Cartier	4
Sullivan St.	West line of Bartlett	6
Sullivan St.	West line of Thornton	6
Sullivan St.	South line of Sullivan	6
Summer St.	East line of Belmont	6
Summer St.	West line of Belmont	6
Summer St.	East line of Wilson	6
Summer St.	East line of Beech	6
Summer St.	West line of Beech	6
Sylvester St.	West of west line of Bismark	6
Taggart St.	South line of Goffstown Rd	8
Taylor St.	North line of Vinton	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Taylor St.	North of Howe	6
Taylor St.	South line of Somerville	6
Taylor St.	North line of Somerville	6
Taylor St.	South line of Young	6
Taylor St.	North line of Young	6
Taylor St.	South line of Valley	6
Taylor St.	Noth line of Valley	6
Thayer St.	East line of River Rd	6
Theophile St.	East line of Mast Rd	6
Third St.	North line of Ferry	6
Third St.	South line of Ferry	6
Third St.	South line of Walker	4
Third St.	South line of Cleveland	8
Third St.	On blow-off in river	4
Thornton St.	North line of Putnam	6
Thornton St.	South line of Putnam	6
Tilton St.	North line of Milford	4
Titus Ave.	West of east line of Calef Rd	8
Titus Ave.	West of Union	8
Titus Ave.	West line of Beech	6
Trenton St.	West line of Union	8
Trenton St.	East line of Chestnut	8
Turner St.	North line of Granite	8
Turner St.	South line of School	8
Turner St.	2 ft South of north line of Perry Lane	8
Union St.	South line of Shasta	6
Union St.	On fire service to Tilton box factory	4
Union St.	South line of Silver	6
Union St.	South line of Hayward	6
Union St.	North line of Concord	4
Union St.	South line of Lowell	4
Union St.	North line of Lowell	6
Union St.	South of south line of Bridge	6
Union St.	South line of Brook	6
Union St.	North line of Blodget	6
Union St.	North of Sagamore	6
Union St.	South line of Salmon	6
Union St.	South line of North	6
Union St.	North line of North	6
Union St.	South line of Webster	6
Union St.	North of Ray brook	6
Union St.	South line of Clarke	6
Union St.	North line of Clarke	8
Union St.	North line of Carpenter	8
Union St.	North line of Arah	8
Union St.	Near Eakett's house	8
Union St.	South line of River Rd	8
Valley St.	East line of Elm	12
Valley St.	On hydrant branch at Willow	6
Valley St.	On hydrant branch at Beech	6
Valley St.	West of west line of Beech	12
Valley St.	On hydrant branch at Wilson	6
Valley St.	West line of Wilson	14
Valley St.	On hydrant branch at Belmont	6
Valley St.	West line of Cypress	20
Valley St.	On hydrant branch at Jewett	6
Valley St.	On hydrant branch at Mason	6
Valley St.	On blow-off at Mason	6
Valley St., West	West line of Elm	6
Victoria St.	West line of Davis	8
Vine St.	North line of Amherst	4
Vine St.	South line of Concord	4
Vinton St.	East line of Willow	6
Vinton St.	East line of Lincoln	6
Vinton St.	East line of Taylor	6
Walker St.	East of west line of Second	6
Walker St.	East line of Main	6
Walnut St.	North line of Amherst	4
Walnut St.	South line of Lowell	6
Walnut St.	North line of Lowell	6
Walnut St.	South of south line of Bridge	6
Walnut St.	North line of Bridge	4
Walnut St.	South line of Pearl	4

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Walnut St.	17 ft. south of north line of Harrison (Tap)	2
Walnut St.	South line of Blodget	4
Walnut St.	North line of Blodget	6
Walnut St.	South line of North	6
Walnut St.	North line of North	6
Walnut St.	South line of Webster	6
Walnut St.	North line of Webster	6
Ward St.	West line of North River Rd.	6
Warner St.	North line of Mast	6
Warner St.	South line of Wilkins	6
Washington St.	East line of Elm	4
Washington St.	West line of Birch	4
Water St.	West line of Elm	6
Water St.	East line of Canal	6
Wayland Ave.	East line of Mammoth Rd.	8
Wayland Ave.	West line of Revere	6
Wayne St.	West line of Main	6
Wayne St.	East line of Dubuque	6
Webster St.	16 ft. west of east line of Elm	6
Webster St.	West line of Union	6
Webster St.	West line of Beech	6
Webster St., West	16 ft. east of west line of Elm	6
Webster St., West	East line of River Rd.	6
Webster St., West	West of west line of River Rd.	6
Welch Ave.	West line of Calef Rd.	4
Wellington Ave.	East line of Mammoth Rd.	6
Wellington Ave.	East of Bridge St. Ext. near hydrant	6
West St.	North line of Douglas	6
West St.	South of south line of Douglas	4
West St.	South of South line of Granite	4
Westland Ave.	West line of Brown Ave.	6
Weston St.	South line of Lowell	6
Weston St.	North line of Lowell	6
Weston St.	South line of Bridge	6
Wheelock St.	South line of Hancock	4
Wilkins St.	East of east line of Highland Ave.	6
Wilkins St.	East line of Rockland Ave.	6
Williams St.	North line of Milford	6
Willow St.	South line of Valley	4
Willow St.	North line of Hayward	4
Willow St.	South line of Hayward	8
Willow St.	Opposite Cohas Shoe shop	8
Willow St.	On fire service to Cohas Shoe shop	6
Willow St.	On line of fence north of Auger Ave.	6
Willow St.	At Pine St.	6
Willow St.	North line of Baker	8
Willow St.	East line of Beech	8
Willow St.	On hydrant branch at Maple	6
Willow St.	North line of Lingard	8
Willow St.	South line of Lingard	8
Willow St.	South of driving park stable	8
Willow St.	South of Laxton Ave.	8
Wilson St.	North line of Clay	10
Wilson St.	North line of Somerville	10
Wilson St.	North line of Silver	10
Wilson St.	South line of Valley	10
Wilson St.	North line of Valley	10
Wilson St.	On fire service to Silk mill	6
Wilson St.	North line of Summer	10
Wilson St.	North of south line of Lake Ave.	10
Wilson St.	South of north line of Lake Ave.	10
Wilson St.	North line of Lake Ave.	10
Wilson St.	On hydrant at Lake Ave.	6
Wilson St.	North of north line of Laurel	10
Wilson St.	South line of Hanover	10
Wilton St.	East line of Cartier	6
Winter St.	West of west line of Main	6

LOCATION OF GATES ON MAINS.—*Continued.*

Street.	Location.	Size (inches).
Winter St.	East of east line of Granite	6
Woodbine Ave.	North line of Candia Rd	6
Woodbury St.	East of South Main	6
Woodlawn Ave.	North line of Londonderry Rd	6
Woodlawn Ave.	North of Fitzgerald's house	6
Young St.	North line of Somerville	6
Young St.	East line of Jewett	6
Young St.	East line of Cypress	6
Youville St.	North line of Amory	6
Youville St.	South line of Kelley	6
Youville St.	North line of Kelley	6

DISTRIBUTION PIPES AND GATES LAID TO DECEMBER 31, 1912.

Size of Pipe	Cast-iron Pipe	Cement-lined pipe	Gates
24-inch	6,937 feet	.....	3
20-inch	24,952 feet	12,203 feet	14
14-inch	16,245 feet	.....	21
12-inch	47,646 feet	.....	54
10-inch	50,503 feet	.....	53
8-inch	120,310 feet	.....	152
6-inch	395,659 feet	57 feet	909
4-inch	20,905 feet	.....	84
	683,157 feet	12,260 feet	1,290

Cast-iron pipe.....683,157 feet

Cement-lined pipe.....12,260 feet

Total length of pipe.....695,417 feet

Equal to.....$131\frac{708}{1000}$ miles

Total number of gates.....1,290

Total number of air valves.....12

Total number of hydrants.....941

Location and Pressure of Water at Hydrants.

A, corner South Main	73 lbs.
A, between South Main and B	73
A, corner B	70
Adams, west corner North Main	69
Adams, west corner Notre Dame avenue	68
Alfred, corner Amherst	45
Allen, corner South Main	80
Alsace, corner Bremer	106
Amherst, corner Elm	62
Amherst, corner Vine	64
Amherst, corner Chestnut	63
Amherst, corner Pine	58
Amherst, corner Union	53
Amherst, corner Walnut	54
Amherst, corner Beech	54
Amherst, corner Maple	54
Amherst, corner Lincoln	47
Amherst, corner Ashland	38
Amherst, corner Hall	85
Amherst, corner Belmont	72
Amherst, corner Beacon	63
Amory, opposite No. 21	62
Amory, corner Main	128
Amory, corner Notre Dame	108
Amory, corner Dubuque	105
Amory, corner Rimmon	105
Amory, corner Hevey	105
Amory, corner Montgomery	105
Amory, corner Alsace	100
Amory, corner Cumberland	100
Amory, corner Morgan	100
Amoskeag, corner Taggart	103
Appleton, corner Elm	108
Appleton, corner Chestnut	107
Appleton, corner Adams	107
Appleton, corner Union	107
Arah, by Gagnon's house	60
Arah, by Rogers' house	67
Arlington, corner Nashua	103
Arlington, corner Warren	92
Arlington, corner Ashland	85
Arlington, corner Morrison	85
Ash, between Bridge and Lowell	48
Auburn, corner Canal.	77
Auburn, corner Franklin	71

Auburn, corner Elm, west side	68
Auburn, corner Elm, east side	68
Auburn, between Elm and Chestnut	66
Auburn, corner Chestnut	62
Auburn, corner Pine	64
Auburn, corner Union	64
Auburn, corner Beech	60
Auburn, corner Maple	54
Auburn, corner Wilson	110
Auburn, corner Hall	110
Auburn, corner Belmont	108
Avon, corner Ingalls	45
Avon near Dickey	44
Baker, corner Brown avenue	65
Baker, corner Elm	60
Baker, between Brown avenue and Elm	61
Baker, corner Calef road	63
Baker, corner Willow	55
Bank, corner Huntress	75
Bartlett, corner Sullivan	60
Bartlett, corner Putnam	61
Bartlett, corner Amory	61
Bath, corner Turner	81
Bath, corner Second	83
Bay, corner Clarke	105
Bay, corner Carpenter	105
Beacon, corner Merrimack	83
Bedford, corner Central	77
Bedford, between Central and Granite	77
Bedford, corner Granite	77
Beech, corner Willow	122
Beech, by Portsmouth Railroad	122
Beech, corner Lake avenue	57
Beech, between Lowell and Bridge	50
Beech, corner North	99
Beech, corner Salmon	97
South Beech, north of Gold	80
South Beech, by Young's	90
South Beech, corner Norfolk	95
South Beech, corner Mystic	110
South Beech, corner Mitchell	120
South Beech, by George Young's	51
Bell, corner Pine	59
Bell, corner Union	60
Bell, corner Wilson	108
Bell, between Wilson and Hall	108
Bell, corner Hall	107

Belmont, corner Clay	80
Belmont, corner Somerville	83
Belmont, corner Silver	80
Belmont, corner Harvard	80
Belmont, north of Hayward	95
Belmont, at No. 344	104
Belmont, corner Summer	104
Belmont, corner Mead	80
Bennington, corner Main	64
Birch, corner Lowell	61
Birch, corner Washington	59
Bismarck, corner Charlestown	44
Blaine, corner Second	83
Blaine, by Cleveland	87
Blaine, corner South Main	88
Blodgett and Elm back street	53
Blodgett, corner Chestnut	48
Blodgett, corner Pine	46
Blodgett, corner Union	41
Blodgett, corner Beech	95
Blodgett, corner Ash	100
Blodgett, corner Maple	103
Blodgett, corner Russell	85
Boutwell, north end of street	100
Boutwell, corner Bremer	100
Bowman, corner Bowman Place	71
Boynton, by No. 101	74
Boynton, by No. 145	74
Boynton, north of Erie	68
Boynton, corner Grant	47
Boynton, corner Glenwood	46
Boynton, corner Sheridan	47
Bremer, corner Coolidge avenue	110
Bridge, corner Canal	76
Bridge, corner Boyden	66
Bridge, corner Elm west	60
Bridge, corner Elm east	60
Bridge, near Birch	58
Bridge, corner Chestnut	49
Bridge, corner Union	50
Bridge, corner Walnut	47
Bridge. corner Beech	45
Bridge, corner Ash	45
Bridge, corner Maple	43
Bridge, at Nashua	107
Bridge, corner Russell	107
Bridge, corner Linden	97

Bridge, corner Ashland	92
Bridge, corner Hall	75
Bridge, corner Belmont	68
Bridge, corner Beacon	62
Bridge, corner Weston	51
Bridge, corner Highland	42
Bridge, corner Mammoth road	49
Brook, corner Canal	76
Brook, corner Elm	52
Brook, corner Elm back street	50
Brook, corner Chestnut	50
Brook, corner Pine	46
Brook, corner Union	45
Brook, corner Beech	39
Brook, corner Ash	100
Brook, corner Oak	86
Brown avenue, corner Elm	66
Brown avenue, by Tannery	68
Brown avenue, by No. 445	56
Brown avenue, corner Westland avenue	50
Brown avenue, by No. 556	45
Brown avenue, by No. 1790	61
Brown avenue, by Colby barn	85
Brown avenue, by No. 2626	89
Brown avenue, by Pine Island Park	86
Brown avenue, by No. 2849	86
Brown avenue, north of No. 2956	83
Brown avenue, north of No. 3022	90
Brown avenue, south of School	83
Byron, by No. 91	64
Byron, corner Josselyn	75
C, corner Boynton	74
C., corner B	74
Calef road and South Elm	63
Calef road, by Clark farm house	44
Calef road, corner Mystic	46
Calef road, by No. 623	42
Calef road, corner Brown avenue	50
Canal, corner Depot	75
Canal, by Locomotive Works	78
Canal, corner Pennacook	61
Candia road, by No. 42	83
Candia road, corner Cody	68
Candia road, by No. 725	72
Candia road, by No. 991	72
Candia road, at Fletcher's Crossing	80
Candia road, by Smith's Corner	70

Candia road, by Farmer's residence	70
Candia road, by Cram's residence	75
Candia, road, Proctor's residence	75
Candia road, by schoolhouse	80
Canton, corner Auburn	78
Carpenter, corner Elm	90
Carpenter, corner Ray	90
Carroll, by No. 57	62
Cartier, corner Sullivan	105
Cartier, corner Putnam	105
Cedar, corner Canal	77
Cedar, corner Elm, west side	68
Cedar, corner Elm, east side	68
Cedar, between Elm and Chestnut	66
Cedar, corner Chestnut	58
Cedar, corner Pine	62
Cedar, corner Union	62
Cedar, corner Beech	52
Cedar, corner Maple	52
Cedar, corner Lincoln	51
Cedar, corner Wilson	120
Cedar, corner Hall	120
Central, corner Canal	78
Central, corner Franklin	66
Central, corner Elm, west side	67
Central, corner Elm, east side	67
Central, between Elm and Chestnut	65
Central, corner Chestnut	63
Central, corner Pine	60
Central, corner Union	60
Central, corner Beech	53
Central, corner Maple	50
Central, corner Lincoln	50
Central, between Lincoln and Wilson	46
Central, corner Wilson	46
Central, corner Hall	105
Central, corner Belmont	87
Central, corner Milton	78
Central, corner Beacon	74
Central, corner Cass	90
Charlestown avenue, corner Rochelle	58
Chase avenue, between Hayes and Hospital avenues	38
Chestnut, corner Lowell	55
Chestnut, foot of High	50
Chestnut, corner Pearl	49
Chestnut, corner Orange	48
Chestnut, corner Myrtle	48

Chestnut, corner Prospect 51
Chestnut, corner Webster 105
Chestnut, by No. 859 108
Cilley road, corner Taylor 65
Clarke, corner Elm 104
Clarke, corner Chestnut 105
Clarke, corner Adams 105
Clarke, corner Union 101
Clay, corner Lincoln 108
Clay, corner Wilson 90
Clay, corner Hall 80
Clay, corner Cypress 81
Clay, corner Jewett 83
Clement, corner Dickey 35
Cleveland, corner Second 83
Clinton, corner South Main 77
Clinton, corner Dover 70
Cohas avenue, at Reservoir 08
Cohas avenue, at Peck's house 13
Cohas avenue, at pumping station 61
Columbus street 105
Conant, corner Main 70
Conant, corner Cartier 68
Conant, corner Dubuque 68
Conant, corner Rimmon 68
Conant, corner Montgomery 67
Concord, corner Elm 64
Concord, corner Vine 63
Concord, corner Chestnut 58
Concord, corner Union 52
Concord, corner Walnut 50
Concord, corner Beech 51
Concord, corner Ash 51
Concord, corner Maple 50
Concord, opposite No. 276 44
Concord, corner Dutton 41
Concord, corner Ashland 39
Concord, corner Hall 80
Concord, corner Belmont 72
Concord, corner Beacon 55
Concord, corner Weston 38
Corning road, by Page's house 63
Corning road, corner Derry road 60
Cove, corner Elm 72
Cove, by Gas Works 74
Crown, corner Park avenue 110
Cumberland, corner Monitor 98

Cypress, corner Vinton	70
Cypress, corner Hayward	25
Cypress, by Kimball's shoe shop	27
Cypress, corner Cedar	95
Dartmouth, between Goffe and Woodbury	85
Dean, corner Elm	57
Dean, between Elm and Canal	61
Dean, corner Canal	75
Dearborn, north of Taylor	35
Delaware avenue, corner Hanover	74
Depot, by car barn	69
Depot, corner Elm	64
Derry road, by Page's	64
Derry road, by Menter brook	62
Dickey road, by Dunbar	61
Dickey road, corner Cohas avenue	61
Dickey street, corner Alpine	30
Dickey street, corner Whittier	40
Dix, corner Maple	115
Dix, corner Lincoln	105
Dix, corner Wilson	90
Dix, corner Hall	80
Donahue, corner Glenwood avenue	47
Donald, by No. 85	63
Donald, by Middle gate, St. Joseph's cemetery	38
Douglass, corner Turner	83
Douglass, between Turner and Main	78
Douglass, west of Main	67
Douglass, corner West	69
Douglass, corner Barr	69
Douglass, corner Green	68
Douglass, corner Quincy	68
Dubuque, corner Putnam	105
Dunbarton road, by No. 186	127
East High, corner South	48
East High, corner Malvern	45
East High, corner Ashland	30
East High, corner Hall	75
East High, corner Belmont	68
East High, corner Beacon	62
East High, corner Weston	51
Elm, south of Baker	60
Elm, by Portsmouth Railroad	72
Elm, corner Valley	72
Elm, corner Grove	70
Elm, corner Green	70
Elm, corner Summer	70

Elm, corner Dean avenue 63
Elm, corner Kidder court 61
Elm, corner of Salmon street 108
Elm, corner Thayer 105
Elm, corner Trenton 83
Elm, corner Rowell 85
Erie, by No. 51 74
Essex, corner Amory 105
Essex, corner Monitor 105
Falls avenue, corner Falls road 44
Falls avenue, at No. 46 44
Falls road, corner Massabesic 43
Ferry, east of South Main 77
Fibre, corner Front 129
Force, Main High Service reservoir 10
Force, Main by Turner's house 45
Forest, by No. 164 45
Franklin, corner Middle 64
Frederick, corner Second 86
Front, north end of Eddy road 79
Front, at schoolhouse 125
Front, corner Goffstown road 125
Front, No. 298 125
Front, by No. 411 130
Front, corner Dunbarton road 130
Garmon, corner Amherst 68
George, between Charlestown avenue and Milford 58
George, corner Charlestown avenue 58
Gate, corner Cartier 68
Gate, corner Rimmon 68
Gertrude, corner Amherst 65
Gilford, corner Oneida 68
Glendale avenue, corner Jewett 82
Glenwood avenue east, Derryfield shoe shop 88
Glenwood avenue, corner Highland Park avenue 75
Glenwood avenue, corner Lovering 70
Goffstown road, at No. 94 102
Goffstown road, near No. 165 103
Goffstown road, near No. 251 100
Goffstown road, by Stevens' burned house 98
Goffstown road, by No. 412 105
Gold, by Brown's house 35
Granite, corner Elm 64
Granite, corner Franklin 66
Granite, corner Canal 75
Granite, by Bridge, east side 86
Granite, corner Turner 83

Granite, corner Second	80
Granite, corner Main, east corner	76
Granite, corner Main, west corner	74
Granite, corner Dover	65
Granite, corner West	66
Granite, corner Barr	67
Granite, corner Green	66
Granite, corner Quincy	70
Green, corner Pine	62
Green, corner Union	59
Green, corner Wilson	108
Green, corner Hall	90
Grove, corner Pine	62
Grove, corner Union	60
Grove, corner Beech	60
Grove, at No. 759	39
Hall, corner Cilley road	65
Hall, near Valley	100
Hall, corner Mead	80
Hancock, corner Brown avenue	64
Hancock, by Greaney's house	70
Hancock, by brewery	81
Hancock west, corner McNeil	91
Hancock west, corner Second	86
Hancock west, corner Dartmouth	81
Hanover, corner Elm	63
Hanover, at No. 46	62
Hanover, corner Chestnut	59
Hanover, corner Pine	58
Hanover, corner Union	55
Hanover, corner Beech	51
Hanover, corner Maple	48
Hanover, corner Lincoln	44
Hanover, corner Ashland	37
Hanover, corner Hall	88
Hanover, corner Belmont	75
Hanover, corner Beacon	65
Hanover, corner Hubbard	63
Hanover, by No. 569	62
Hanover, corner Hilton	65
Hanover, corner Grant	70
Hanover, corner Mammoth road	70
Hanover, corner Lake avenue	70
Hanover, by No. 1150	75
Hanover, by No. 1230	75
Harrison, corner Elm	52
Harrison, between Elm and Chestnut	52

Harrison, corner Chestnut	51
Harrison, corner Pine	51
Harrison, corner Union	44
Harrison, corner Beech	40
Harrison, corner Maple	94
Harrison, corner Oak	87
Harrison, corner Russell	83
Harrison, corner Hall	75
Harrison, corner Belmont	75
Harvard, corner Lincoln	50
Harvard, corner Wilson	95
Harvard, corner Hall	87
Hayes avenue, corner Chase	44
Hayward, corner Willow	59
Hayward, corner Pine	59
Hayward, corner Union	59
Hayward, corner Beech	59
Hayward, corner Maple	50
Hayward, corner Lincoln	51
Hayward, corner Pipe yard	100
Hayward, corner Wilson	95
Hayward, corner Hall	90
Hayward, between Belmont and Taylor	80
Hayward, corner Taylor	80
Hayward, corner Jewett	80
Hayward, corner Riley avenue	87
Hayward, corner Porter	92
Head, north end	88
Head, foot of hill	88
Henrietta, corner Edmond	34
Hevey, corner Conant	67
Hevey, corner Wayne	95
High power station force main	110
Highland avenue, corner Fogg avenue	39
Highland street, corner Hanover	63
Highland street, corner Amherst	43
Highland Park avenue, corner Oakland	70
Hiram, between Cleveland and Blaine	83
Hollis, corner Canal	72
Hollis, at Locomotive Works office	67
Hollis, corner Elm	60
Holley avenue, corner Belmont	65
Holly avenue, corner Taylor	65
Holly avenue, corner Cypress	71
Hospital avenue, corner Chase avenue	38
Howe, corner Maple	115
Howe, corner Lincoln	106

Howe, corner Wilson	88
Hubbard, corner Amherst	55
Jewett, corner Massabesic	31
Jewett, corner Young	82
Jewett, corner Clay	82
J. Hall road, south Portsmouth Railroad	85
J. Hall road, corner Nelson	75
J. Hall road, corner Auburn	69
Joliette, corner Amory	105
Joliette, corner Bremer	107
Josselyn formerly, now in McElwain Factory yard	75
Kearsarge, corner Monitor	100
Kelley, corner Notre Dame	112
Kelley, corner Cartier	112
Kelley, corner Dubuque	108
Kelley, corner Rimmon	101
Kelley, corner Hevey	105
Kelley, corner Joliette	110
Kelley, corner Alsace	110
Kelley, corner Montgomery	110
Kelley, corner Boutwell	110
Kelley, corner Morgan	105
Kennedy street	64
Kidder, corner Elm	65
Kidder, between Elm and Canal	67
Kidder, corner Canal	76
Lafayette, corner Kelley	107
Lake avenue, at No. 38	66
Lake avenue, corner Chestnut	64
Lake avenue, corner Union	59
Lake avenue, corner Maple	51
Lake avenue, corner Lincoln	50
Lake avenue, corner Wilson	105
Lake avenue, corner Hall	105
Lake avenue, corner Milton	100
Lake avenue, corner Cass	90
Lake avenue, corner Canton	85
Lake avenue, corner Kenney avenue	79
Lake avenue, corner J. Hall road	73
Lake avenue, corner Gertrude	82
Lake Shore road, at Brook on Force main	108
Langdon, corner Canal	77
Langdon, corner Elm	55
Laurel, corner Chestnut	62
Laurel, corner Pine	59
Laurel, corner Union	56
Laurel, corner Beech	51

Laurel, corner Maple	48
Laurel, corner Lincoln	44
Laurel, between Lincoln and Wilson	44
Laurel, corner Wilson	42
Laurel, corner Hall	105
Laurel, corner Belmont	98
Laurel, corner Milton	78
Laurel, corner Beacon	74
Laurel, at No. 437	78
Laval, corner Kelley	105
Laval, corner Bremer	105
Laval, at north end of street	106
Liberty, corner North	106
Lingard, corner Willow	120
Londonderry road, at Chapel	53
Londonderry road, corner Woodlawn	50
Londonderry road, at Dobbins'	48
Londonderry road, at Olson's	48
Londonderry road, at Turcotte's	48
Londonderry road, at Roy's	49
Longwood avenue, corner Mammoth road	83
Longwood avenue, corner Revere	83
Lowell, corner Elm	58
Lowell, corner Beech	50
Lowell, corner South	46
Lowell, at No. 267	40
Lowell, corner Malvern	39
Lowell, corner Ashland	34
Lowell, corner Hall	78
Lowell, corner Belmont	65
Lowell, corner Beacon	54
Lowell, corner Weston	40
Lowell, corner Highland	35
Main, at No. 429	77
Main South, corner Hancock	73
Main South, by No. 500	59
Main South, corner Harvell	79
Main South, corner Erie	79
Main South, at Woodbury's pond	90
Mammoth road, corner Mooresville road	45
Mammoth road, by Garland's	39
Mammoth road, by Kimball's	23
Mammoth road, by Horton's	08
Mammoth road, by Mercy Home	13
Mammoth road, south City farm	55
Mammoth road, at City farm	53
Mammoth road, between Bridge and Old Bridge	49

Mammoth road, corner Old Bridge	52
Manchester, corner Elm	64
Manchester, by No. 58	63
Manchester, corner Chestnut	60
Manchester, corner Pine	59
Manchester, corner Union	54
Manchester, corner Beech	51
Manchester, corner Maple	48
Manchester, corner Lincoln	42
Manchester, corner Wilson	41
Manchester, by Hall	97
Manchester, corner Belmont	84
Manchester, corner Milton	75
Maple, corner East High	44
Maple, by Flint's wood yard	51
Marion, corner McGregor	62
Marion, corner Main	60
Market, corner Elm	63
Market, between Elm and Canal	68
Market, corner Canal	76
Maryland avenue, corner London	70
Mason, corner Rimmon	115
Mast road, by No. 130	55
Mast road, by No. 232	52
Mast road, by No. 343	36
Mast road, by No. 369	34
Mast road, by No. 417	35
Mast road, by Regan's	36
Mast road, by Claus's	34
Mast street, corner Main	82
Mast street, by No. 65	81
Mast street, corner Bowman	81
Mast street, east of Riddle	77
Mast street, corner Head	77
Mast street, corner Mast road	60
Mast street, corner Warner	41
Mast street, corner Rockland avenue	40
Massabesic, by No. 735	30
Massabesic, corner Mammoth road	29
McDuffie, corner Boynton	74
McDuffie, corner Huntress	74
McGregor, north of Main	65
McGregor, south of Wayne	65
McGregor, corner Bridge	64
Mechanic, corner Elm	63
Mechanic, between Elm and Canal	68
Mechanic, corner Canal	75

Merrimack, West, corner Elm	66
Merrimack, West, corner Franklin	64
Merrimack, West, between Franklin and Canal	66
Merrimack, West, corner Canal	74
Merrimack, corner Elm	66
Merrimack, by No. 60	63
Merrimack, corner Chestnut	60
Merrimack, corner Pine	58
Merrimack, corner Union	55
Merrimack, corner Beech	54
Merrimack, corner Maple	49
Merrimack, corner Lincoln	44
Merrimack, between Lincoln and Wilson	44
Merrimack, corner Wilson	42
Merrimack, corner Hall	100
Merrimack, corner Belmont	87
Merrimack, corner Milton	83
Merrimack, corner Cass	83
Merrimack, corner Hanover	84
Middle, between Franklin and Canal	63
Middle, corner Canal	77
Milford, corner Main	73
Milford, corner Bowman	73
Milford, corner Tilton	70
Milford, east of George	58
Milford, corner Donald	63
Milford, corner Bismarck	60
Mill avenue, by No. 67	95
Mill street, corner Front	130
Mill street, by No. 27	130
Monroe, corner Elm	108
Myrtle, corner Elm	54
Myrtle, by No. 32	52
Myrtle, corner Pine	47
Myrtle, corner Union	45
Myrtle, corner Walnut	45
Myrtle, corner Beech	39
Myrtle, corner Ash	97
Myrtle, corner Maple	97
Myrtle, corner Oak	90
Myrtle, corner Russell	92
Myrtle, corner Linden	85
Myrtle, corner Hall	80
Myrtle, corner Belmont	80
Mystic avenue, corner Oakland	70
Mystic street, corner Union	105
Nashua, corner Lowell	46

Nelson, corner J. Hall road	84
Nelson, corner Jones	85
Norfolk, by No. 189	95
North, corner River road	53
North, corner Elm	107
North, corner Bay	104
North, corner Chestnut	104
North, corner Pine	105
Notre Dame, near Wayne	115
Old Bridge, corner Mammoth road	52
Omega, by No. 88	100
Omega, by Maxwell's barn	122
Oneida, corner South Main	74
Orange, corner Elm	54
Orange, corner Clarke avenue	54
Orange, corner Chestnut	48
Orange, corner Pine	48
Orange, corner Union	47
Orange, corner Walnut	46
Orange, corner Beech	44
Orange, corner Ash	40
Orange, corner Maple	39
Orange, corner Oak	96
Orange, corner Russell	97
Orange, corner Linden	85
Orange, corner Hall	85
Orange, corner Belmont	75
Orchard avenue, corner Candia road	75
Orchard avenue, corner Oakland	75
Orchard avenue, corner Glenwood	80
Page, corner Candia road	68
Page, near Glenwood avenue	70
Page, by Eaton Height's shoe shop	74
Page, corner Hanover	74
Page, south of London	70
Palmer, corner River road	105
Pearl, corner Elm	56
Pearl, corner Clarke avenue	55
Pearl, corner Pine	48
Pearl, corner Union	48
Pearl, corner Walnut	44
Pearl, corner Beech	43
Pearl, corner Ash	43
Pearl, corner Maple	41
Pearl, corner Oak	100
Pearl, corner Russell	98
Pearl, corner Linden	87

Pearl, corner Ashland	82
Pearl, corner Morrison	82
Pearl, corner Belmont	82
Pennacook, corner Elm	107
Pennacook, corner Chestnut	47
Pennacook, corner Pine	45
Pennacook, corner Union	43
Pennsylvania avenue, corner Hanover	74
Pennsylvania avenue, corner Paris	73
Pinard, corner Mast road	34
Pine, corner Somerville	60
Pine, corner Lake avenue	60
Pine, corner Concord	52
Pine, corner Lowell	52
Pine, corner High	50
Pine, corner Bridge	50
Pleasant, corner Elm	65
Pleasant, corner Franklin	63
Pleasant, between Franklin and Canal	65
Pleasant, corner Canal	75
Porter, corner Harvard	92
Prescott, corner Wilson	97
Prince, corner Boynton	75
Prince. corner B	77
Prospect, corner Elm	54
Prospect, between Elm and Chestnut	52
Prospect, corner Pine	47
Prospect, corner Union	44
Prospect, corner Walnut	42
Prospect, corner Beech	103
Prospect, corner Ash	100
Prospect, corner Maple	95
Prospect, corner Oak	85
Prospect, corner Russell	85
Prospect, corner Linden	87
Prospect, corner Hall	75
Prospect, corner Belmont	75
Putnam, corner Main	130
Putnam, corner Notre Dame	110
Railroad, near Koehler	65
Railroad, at North Weare track	65
Ray, north of Ray brook	106
Ray, corner Clarke	101
Reed, corner Amory	102
Riddle, at No. 88	70
Rimmon, corner Bremer	107
River road, corner Salmon	59

River road, south of Monroe	55
River road, corner Clarke	49
River road, by No. 564	90
River road, Stark park	90
River road, corner Rowell	90
River road, by Rowell's house	100
River road, by Brown's house	105
River road, corner Arizona	100
River road, by Stark school	90
River road, by Farrell's	87
River road, by Preston's	80
River road, corner Union	75
River road, by Olsen's	85
Robie Concrete Co. yard	63
Rockland avenue, by Lamprey's	40
Rockland avenue, by Batchelder's	37
Rosedale avenue, corner Calef road	44
Sagamore, corner Chestnut	46
Sagamore, corner Pine	45
Sagamore, corner Union	44
Sagamore, corner Beech	95
Sagamore, corner Ash	95
Sagamore, corner Maple	96
Sagamore, corner Oak	96
Sagamore, corner Linden	73
Sagamore, corner Smith road	76
Salisbury, corner Amherst	78
Salmon, corner Bay	44
Salmon, corner Chestnut	44
Salmon, corner Union	41
Savage, corner River road	105
Schiller, corner Wentworth	98
School, corner Turner	86
School, corner Third	85
School, corner Main South	80
Schuyler, corner Main	68
Second, corner School	86
Second, corner Walker	82
Second, north of North Weare track	83
Second, corner Schiller	90
Second, corner Harvel	90
Second, south of Harvel	90
Second, by No. 852	92
Second, by McQueston's brook	95
Second, corner South Main	79
Shasta, corner Brown avenue	66
Shasta, corner Elm	63

Shasta, corner Beech	125
Shasta, corner Maple	125
Sheridan, corner Donahue	47
Sherman, corner Bedel	46
Silver, corner Union	50
Silver, corner Beech	57
Silver, corner Lincoln	105
Silver, corner Wilson	90
Silver, corner Hall	80
Somerville, west of Union	50
Somerville, corner Beech	56
Somerville, corner Maple	122
Somerville, corner Wilson	90
Somerville, corner Hall	80
Somerville, corner Cypress	80
Somerville, corner Jewett	83
Somerville, corner Young	85
Somerville, corner Porter	88
Spring, corner Elm	60
Spring, corner Charles	70
Spring, corner Canal	76
Spruce, corner Elm	64
Spruce, between Elm and Chestnut	55
Spruce, corner Chestnut	58
Spruce, corner Barry avenue	56
Spruce, corner Union	60
Spruce, corner Beech	51
Spruce, corner Maple	53
Spruce, corner Lincoln	50
Spruce, corner Wilson	50
Spruce, corner Belmont	110
Spruce, east of Beacon	103
Spruce, corner Cypress	95
Spruce, corner Canton	78
Spruce, corner Kenney avenue	74
Stark, corner Elm	62
Stark, between Elm and Canal	68
Stark, corner Canal	76
State, corner Granite	75
State, near Payson	75
State, near Grove	75
Sullivan, corner Main	58
Sullivan, corner Notre Dame	43
Sullivan, west of Thornton	60
Sullivan, corner Sullivan	62
Summer, corner Beech	60
Summer, corner Wilson	108

Summer, corner Hall	90
Summer, corner Dearborn	40
Taylor, corner Massabesic	33
Taylor, corner Hayward	80
Taylor, corner Young	84
Taylor, corner Clay	75
Taylor, corner Vinton	65
Third, corner Ferry	83
Thornton, corner Sullivan	58
Thornton, corner Putnam	58
Thornton, corner Wayne	60
Titus, corner Beech	100
Titus, by schoolhouse	95
Titus, by No. 151	24
Trenton, corner Chestnut	83
Trenton, corner Union	89
Union, at Portsmouth track	58
Union, corner High	51
Union, corner North	108
Union, by No. 969	106
Union, by No. 1046	98
Union, corner Carpenter	90
Union, north of Trenton	80
Union, corner Arah	45
Union, Eakett's	60
Union, Garland's	65
Valley, corner Willow	67
Valley, corner Pine	59
Valley, corner Union	59
Valley, corner Beech	61
Valley, corner Wilson	46
Valley, corner Belmont	100
Valley, corner Taylor	33
Valley, corner Cypress	26
Valley, corner Jewett	24
Valley, by No. 1050	27
Vine, at Central fire station	64
Vinton, corner Wilson	100
Vinton, by Stevens' house	65
Walker, corner Turner	85
Walker, corner Third	80
Walker, corner Fourth	80
Walker, corner South Main	78
Walnut, corner Lowell	50
Walnut, between Lowell and Bridge	49
Walnut, corner Sagamore	100
Walnut, corner Salmon	100

Walnut, corner North	108
Walnut, north of Webster	108
Ward, corner River road	105
Warner, corner Kingston	40
Water, corner Elm	62
Water, between Elm and Canal	75
Wayland avenue, corner Revere	83
Wayne, corner Main	130
Wayne, corner Notre Dame avenue	115
Wayne, corner Dubuque	105
Webster, by Amoskeag depot	70
Webster, corner River road	110
Webster, corner Elm	108
Webster, corner Adams	105
Webster, corner Union	105
Webster, corner Walnut	104
Webster, corner Beech	104
Wellington avenue	80
Wentworth, corner Bell	98
West, corner Parker	68
Wilkins, corner Highland avenue	39
Wilkins, corner Warner	39
Wilkins, corner Rockland avenue	37
Wilkins, by Dickey's house	28
Willow, by Manchester Coal and Ice Co.	115
Willow, corner Silver	59
Willow, corner Auger	45
Willow, north of Fair Ground	118
Willow, south of Fair Ground	115
Willow, by Levasseur's	117
Wilton, corner Notre Dame avenue	71
Winter, corner Main	87
Winter, corner Parker	73
Winter, corner Granite	71
Woodbine, corner Longwood	75
Woodbine, corner Oakland	75
Woodland, corner Candia road	68
Woodland, corner Oakland avenue	70
Woodland, corner Glenwood avenue	71
Woodlawn, opposite Theiss	48
Woodlawn, opposite Fitzgerald's	51
Young, corner Ainsworth avenue	75
Young, corner Cypress	80
Youville, corner Amory	102
Youville, corner Kelley	105

Inventory of Stock and Tools on Hand December 31, 1912.

METERS.

1	4-inch Rotary.	1	2-inch Crown.
1	3-inch Rotary.	1	1½-inch Crown.
1	1½-inch Rotary.	1	1-inch Crown.
2	1-inch Rotary.	8	¾-inch Crown.
3	¾-inch Rotary.	18	⅝-inch Crown.
1	⅝-inch Rotary.	4	1½-inch Trident.
1	1½-inch Hersey.	1	1-inch Trident.
3	1-inch Hersey.	1	¾-inch Trident.
3	¾-inch Hersey.	3	¾-inch Thomson.
3	⅝-inch Hersey.	3	⅝-inch Thomson.
2	¾-inch Lambert.	2	¾-inch Nash.
1	⅝-inch Lambert.	1	⅝-inch Nash.
3	¾-inch Empire.	3	⅝-inch Columbia.
1	¾-inch Duplex.	1	¾-inch Piston.

CAST-IRON PIPE.

38	pieces 24-inch pipe.	308	pieces 10-inch pipe.
642	pieces 20-inch pipe.	258	pieces 8-inch pipe.
54	pieces 14-inch pipe.	5	pieces 6-inch pipe.
458	pieces 12-inch pipe.	50	pieces 4-inch pipe.

DOUBLE BRANCHES, FOUR BELLS.

1	8″ on 14″.	15	6″ on 8″.
1	8″ and 6″ on 14″.	1	4″ on 8″.
1	12″ on 12″.	18	6″ on 6″.
1	6″ on 12″.	2	4″ on 6″.
1	6″ and 10″ on 10″.	3	4″ on 4″.
14	8″ on 8″.		

DOUBLE BRANCHES, THREE BELLS, ONE SPICKET.

1	8″ on 24″.	4	6″ on 10″.
1	6″ on 20″.	6	8″ on 8″.
7	8″ on 12″.	3	6″ on 8″.
11	6″ on 12″.		

SINGLE BRANCHES, THREE BELLS.

1	6″ on 20″, 45°.	4	6″ on 12″.
1	14″ on 14″.	1	4″ on 12″.
2	12″ on 14″.	1	4″ on 10″.
1	6″ on 14″.	1	8″ on 8″.
2	12″ on 12″.	12	6″ on 6″.

SINGLE BRANCHES, TWO BELLS, ONE SPICKET.

3	6″ on 14″.	1	4″ on 10″.
5	8″ on 12″.	13	8″ on 8″.
5	10″ on 10″.	11	6″ on 6″.
4	6″ on 10″.	2	4″ on 4″.

REDUCERS.

1	24″ to 20″.	4	10″ to 8″.
1	20″ to 14″.	6	12″ to 6″.
2	14″ to 12″.	2	10″ to 6″.
2	14″ to 10″.	8	8″ to 6″.
2	12″ to 8″.	2	6″ to 4″.

GATES.

1	24″ gate with 4-inch bypass.	12	8″ gates.
1	20″ gate.	3	6″ gates.
5	12″ gates.	1	4″ gate.
14	10″ gates.		

SLEEVES.

1	24-inch whole sleeve.
3	20-inch clamp sleeve.
2	20-inch sleeves with 14-inch gate take-off.
2	20-inch sleeves with 8-inch gate take-off.
1	20-inch sleeve with 6-inch gate take-off.
7	14-inch whole sleeves.
17	8-inch whole sleeves.
14	6-inch whole sleeves.

BENDS.

2	24-inch ⅛ bends.	1	10-inch 45° bend.
1	20-inch 45° bend.	5	10-inch ¼ bends.
1	14-inch 45° bend.	1	8-inch 45° bend.
1	14-inch ¼ bend.	3	8-inch ¼ bends.
6	12-inch ¼ bends.	6	6-inch 45° bends.
2	12-inch ⅛ bends.	1	6-inch ¼ bend.
6	12-inch 45° bends.	2	4-inch ¼ bends.

WYES.

1	20-inch three bells.
2	20-inch two bells, one spicket.
1	20 x 20 x 24, three bells.

PLUGS.

2 14-inch plugs.
16 12-inch plugs.
8 10-inch plugs.
12 8-inch plugs.
7 6-inch plugs.
14 4-inch plugs.

RISERS.

2 12-inch risers.
4 8-inch risers.
1 6-inch riser.
1 6-inch long riser.
3 10-inch risers.

LEAD-LINED PIPE.

121 pieces 1-inch.
18 pieces 1½-inch.
11 pieces 2-inch.
18 pieces 2½-inch.
6 pieces 3-inch.
4 pieces 1-inch plain pipe.
12 pieces 1¼-inch plain pipe.
13 pieces 12-inch flange pipe.
2 pieces 10-inch thread pipe.

MISCELLANEOUS.

180 curb boxes.
209 rods.
12 hydrants.
3 4-inch valves.
18 long gate boxes.
12 domes and covers.
1 12-inch flexible joint.
22 half casings.
80 curb cocks.
218 ¾-inch corporation cocks.
17 1-inch corporation cocks.
75 ¾-inch right and left couplings.
90 ¾-inch x ½-inch couplings.
205 ¾-inch couplings.
600 1-inch couplings.
56 ½-inch close nipples.
120 ¾-inch close nipples.
75 1-inch close nipples.
8 1¼-inch close nipples.
6 1½ inch close nipples.
16 2-inch close nipples.
2 barrels of 1-inch nipples.
1 barrel of ¾-inch nipples
24 ¾-inch x ½-inch elbows.

100 ¾-inch elbows.
18 1-inch elbows.
120 1-inch x ¾-inch elbows.
60 ¾-inch unions.
43 1-inch unions.
5 1¼-inch unions.
25 1½-inch unions.
29 2-inch unions.
2 1-inch valves.
3 1¼-inch valves.
8 1½-inch valves.
8 2-inch valves.
90 ¾-inch tees.
45 1-inch tees.
1 automobile truck.
1 compressed air drilling outfit.
3 steam drills.
3 derricks.
1 wheel derrick.
1 crank for derrick.
1 steam boiler.
18 striking hammer handles.
139 pick handles.
5 oil cans.
29 lanterns.
184 picks.
41 axes.
5 hand saws.
3 cross-cut saws.
11 striking hammers.
6 monkey wrenches.
10 sledge hammers.
123 shovels.
18 lamp bars.
8 chains.
29 points.
15 steel hand drills.
25 plug drills.
14 hydrant wrenches.
5 hand pipe cutters.
3 plug drill hammers.
9 iron bars.
1 battery and wires.
49 pairs rubber boots.
7 ladles.
22 pails.

4 grub hoes.
4 tamping bars.
7 sidewalk wrenches.
3 lead furnaces.
4 lead pots.
23 caulking sets.
3 caulking hammers.
5 pipe cutters.
2 gasket irons.
2 ratchet die stocks.
4 tapping machines.
1 length of hose.
8 gate wrenches.
2 crabs.
2 cement pipe tapping machines.
20 pipe drills.
18 taps.
36 pipe dies.
2 trowels.
10 die stocks.
11 Stilson wrenches.
2 pipe benches.
4 pumps and hose.
3 lead jointers.
5 hydrant tops.
1 chain and falls.
1 reel of lead.
11 bars of lead.
15 rolls of gasket.
8 bags of cement.
4 manhole covers.
2 manhole casings.
50 meter boxes.
2 pipe vices.

REPORT

OF THE

TRUSTEES OF THE CITY LIBRARY.

MANCHESTER CITY LIBRARY, 1912.

Trustees.

Edward C. Smith, *Mayor, ex officio.*
Ernest A. Bournival, *President of the Common Council, ex officio.*
Walter M. Parker.....Term expires 1913
Herman F. Straw .....Term expires 1914
Edwin F. Jones.....Term expires 1915
Frank P. Carpenter.....Term expires 1916
William P. Farmer .....Term expires 1917
Henry W. Boutwell.....Term expires 1918
Roger G. Sullivan.....Term expires 1919

Officers.

PRESIDENT, *ex officio.*

Edward C. Smith.

CLERK AND TREASURER.

Edwin F. Jones.

Librarian.

F. Mabel Winchell.

ASSISTANTS.

Charles S. Morgan.[1]
Albro P. Reed.[2]
Carlton F. Hamer.[3].
Ruth H. Bartlett.
Caroline B. Clement.
Una Vincent.
Margaret I. Grant.
Clara G. Wilson.
Maria F. Kidder.
Clayton V. McLean.[4]
Rachel Flint.
Max McConachie.
Ruth C. Dudley.
Ralph M. Page.[5]
Gladys Lane.[6]
Everett Beane.[7]

JANITOR.

Gustav Hecker.

Library Hours.

9 A. M. to 9 P. M. Sundays (for reading and reference) 11 A. M. to 5 P. M.

[1] Resigned January 1.
[2] Sundays only.
[3] Resigned November 23.
[4] Resigned June 15.
[5] From January 7. (Sundays only.)
[6] From November 25.
[7] From December 2.

REPORT OF THE TRUSTEES OF THE CITY LIBRARY.

To the Board of Mayor and Aldermen of the City of Manchester:

GENTLEMEN:—I herewith submit the following as the report of the trustees of the City Library. The report of the librarian contains all facts necessary to be mentioned, and there is no need of duplication. It may be said that the use of books made by the public increases each year and the additions to the library are annually purchased with the double purpose of satisfying the popular demand, and gradually raising the literary standard.

In January the executor of the will of Michael Prout, who died some years ago, paid to the treasurer the sum of $7,949.23, and this bequest, the income of which is to be used in the purchase of reference and historical books, is a very handsome addition to the permanent funds, and ought to win from our citizens a grateful appreciation of the donor's generosity.

The beginning of work on the Carpenter memorial building marks an important era in the life of the library. The people of Manchester ought to be grateful, indeed, for this munificent gift.

EDWIN F. JONES,
Clerk of the Trustees.

LIBRARIAN'S REPORT.

To the Trustees of the City Library, Manchester, N. H.:

GENTLEMEN:—Herewith is submitted the fifty-ninth annual report of the City Library for the year 1912.

Growth and Development.

In spite of cramped quarters and crowded conditions the records for 1912 indicate another year of steady progress. The home circulation shows an increase of over 4,000 volumes while the school circulation has gained over 2,000, making a total gain over last year of more than 6,000 volumes.

Circulation.

The use of the books in the building has increased likewise, though the records do not show it for the reason that in April nearly 700 volumes of juvenile non-fiction were placed in the children's corner of the reading room on improvised shelves and the children can and do obtain the larger part of their reading both for library and home use from this collection instead of having to ask an assistant for it. By a conservative estimate, more than one third of the reading room circulation formerly recorded is no longer kept, while the use of the books is much greater than before.

Books added to children's corner.

The number of volumes given as the record of books read in the building is hardly more than a suggestion of the use of the library in the reading room and reference departments. Only those volumes or magazines are recorded which are obtained through the assistance of an attendant, and this is a very small portion of the total number. About 200 periodicals and newspapers are displayed upon the tables and racks of the reading room directly available to all patrons. These are very much read. No record can be kept of the use of these periodicals nor of the reference books consulted by those who go to the reference alcove and make their own selections.

Reading room and reference use.

Not only is the circulation larger this year than ever before in the history of the library but this increase is wholly in the reading of non-fiction. The percentage of fiction is lower than ever before, which would seem to indicate that more reading has been done along educative lines or with a serious purpose. We are glad to note that the business men are using the library more and more, not solely for recreative

Percent of fiction.

reading but for help or information in business. This may be due partly to the increased facilities which we now have for furnishing information and partly to the fact that the library is becoming better known as a live institution. For several years especial attention has been given to strengthening and rounding out our reference collection, and we are much better prepared now than ever before to answer questions. The more the people of Manchester test us in this particular the better we shall be pleased. In this connection the telephone is found to be a great convenience and time-saver. The busy man or woman who needs to know the population of Spokane, the name of the governor of Idaho, where a certain magazine is published, or the address of some person of note can, by telephoning, have such questions answered and thus save the time of going to the library. Books also may be renewed or requested by telephone.

Reference collection enlarged.

Use of telephone.

The work with the schools has been in charge of Miss Bartlett this year, and there is a marked increase in the number of teachers who have availed themselves of this adjunct of their work. In the fall a letter was sent to the principals of the schools calling their attention to the advantages offered by the library in the use of books at the schools and expressing a willingness to select and send the collections with the minimum of trouble to the teacher. Possibly it is the result of this appeal which has made the number of volumes sent to the schools in 1912 show a gain of seventy percent over the number sent in 1911. We believe the volumes used in this way are doing their full quota of good, for many of the books issued from the schools go into families not in the habit of using the library and repeatedly it is found that the parents and other members of the household read the books as well as the child who takes them home. In addition to this it is the general testimony of teachers that the pupils who read library books do better in their lessons than those who do not.

Work with schools.

Both the number of volumes added to the library and the number of people registered during the year indicate a normal increase. The records show a thousand more active borrowers than a year ago.

Accessions and registration.

Delivery Stations.

The need of delivery stations or branch libraries has been mentioned in previous reports, and it has long been desired to establish such, but lack of funds and consequently of assistants has heretofore prevented any such development of the work. This year, on account of the extra assistant granted in the fall of 1911, and also because we have had no long-standing vacancies, as has so often been the case in former years, we have been able to accomplish something in

this direction. On May 28 a delivery station was started at East Manchester in the drug store of Charles G. Dunnington, and has been open one evening a week from 6.30 to 8.30. On the first evening fifteen books were issued and three registrations taken. From this small beginning it has steadily grown until ninety-four volumes have been issued in one evening. It was with no surety of continuance that this station was opened but as an experiment to ascertain if the people of that section of the city desired such local accommodation; also to determine if they would use the station more freely than they had the central library.

East Manchester.

These two points seem to have been very clearly demonstrated for in the thirty-two evenings on which it has been open, 2,084 books have been borrowed, an average of sixty-five volumes an evening; also fifty-seven new borrowers have registered. Many words of appreciation have reached us showing that the residents of East Manchester are grateful for having the books made more easily accessible to them. Miss Clement has had charge of this work.

Other stations needed.

There is equal need of similar work in West Manchester and South Manchester, and the small amount required for sustaining such stations could hardly be expended more profitably.

Progress in the Work.

For several years, as mentioned in previous reports, it has been impossible to keep up with the work of classification and cataloging. It gives me special pleasure, therefore, to report that at the close of this year there are no arrears in this department excepting for some public documents, which, like the poor, are always with us. This improved condition of affairs is due to the larger and better trained staff which we now have, and also to the efficient services of our cataloger, Miss Flint.

Classification and cataloging.

Not only has the work of classification and cataloging been brought up to date but a card shelf list has been started. For some years we have desired to change our shelf list from the loose leaf variety to cards but pressure of work and lack of workers has prevented. This year we have succeeded in typewriting about 14,000 cards for the list, which makes a very good beginning. We hope to be able to continue this work and possibly to finish it during the coming year. Once done it will be much more economical of time than the old style list, which required constant rewriting.

Card shelf list.

Book Lists.

Weekly newspaper lists.

The annotated weekly book lists have continued to appear in the local papers as during last year. It was hoped that the slight increase in the appropriation would make it possible to print a number of short lists in book-mark form, on topics of interest. However, after one such list had been issued it was found that we were running on too narrow a margin to justify further printing which was not absolutely necessary.

Book mark list.

The list which was printed was on municipal government, which was a subject of special interest at that time on account of the meetings and hearings of the commission which had been appointed to revise the city charter. The lists were distributed among those likely to be interested and resulted in a much more extended use of the books than would otherwise have occurred. This is a form of advertising very largely used by modern libraries, and it is greatly to be hoped that the appropriation for the coming year will be sufficient to permit frequent printing of such lists.

Advertising.

A bulletin such as has been mentioned in previous reports is also a good form of advertising.

Publicity.

Numerous items about the library and its work (about 150) have appeared in the local papers, in addition to the book lists, and have served to bring this institution before the public and to acquaint it to some extent with its activities.

New Library Building.

Foundation laid.

The new library building to be given by Mr. Frank P. Carpenter has aroused much interest and all are looking expectantly forward to the time when it shall become a reality. Ground was broken on October 4, and the foundation was completed on December 7. Work was then suspended until spring.

The repairs on the old building this year were a negligible quantity.

Staff.

Changes.

There have been fewer changes than usual in the personnel of the staff this year, which is a hopeful condition. In some things change denotes progress but frequent changes in a library staff are not advantageous. If an assistant is worth having he or she becomes more valuable with each year of service, so that other things being equal, to lose an old assistant and acquire a new one is a distinct loss to the library.

Charles S. Morgan, who had served in some capacity since 1900 left the city at the beginning of 1912, and consequently severed his

connection with the library at the close of 1911. He was for about nine years a general assistant, but in April, 1909, resigned this position and for the remainder of the time had charge of Sunday work only.

Carlton F. Hamer, who was with us during his high school course, remained for a year after graduation but resigned in November to enter the American Locomotive Works. Clayton V. McLean, another high school boy, was the only other assistant, resigning this year.

Ralph M. Page, a former employee, was appointed to take Mr. Morgan's place on Sundays. Gladys Lane and Everett Beane were appointed to fill the other two positions.

Pupil assistant.

Miss Lane came to us first in March as a pupil assistant. In July she was excused from her studies in order that she might attend the summer library school at Simmons College. In the fall she substituted for six weeks before receiving an appointment.

Simmons College course.

Margaret I. Grant also took the course referred to at Simmons College, thus showing her interest in the work and her desire to become more proficient in it.

Staff meetings.

Weekly staff meetings have been held as heretofore for the exchange and discussion of ideas and opinions concerning the practical working of various methods, also for the comparison of our system and rules with those in use in other libraries and for reports of library meetings attended by members of the staff. Great interest has often been shown in the discussion of the topics presented and it is believed that in this way greater unity of purpose, feeling, and action has been secured than would otherwise have been possible.

Attendance at library meetings.

The librarian and one assistant, Miss Clement, attended the conference of the American Library Association which was held at Ottawa this year. Two of the assistants and the librarian attended the state meeting which was held at Laconia. It is most desirable that the assistants should attend library meetings occasionally that they may keep in touch with the progress of development in library methods, and acquire ideas and ideals; also that they may obtain that breadth of view which comes from meeting others and learning of different conditions, problems and solutions from those with which they are familiar in their home library. The advantage of attendance at library meetings has been so fully recognized that time with pay is granted for attendance at such meetings by almost every large library and by many of the smaller ones. It is also quite common for the libraries to pay the expenses of the librarian or assistant for attendance at such meetings.

In view of the fact that the salaries paid the assistants in our library are so small as to make it impossible many times for the

assistant to afford the expense of a trip and the loss of pay for time absent, I would respectfully urge the granting of time, with pay, for attendance at library meetings.

Inventory.

The number of books missing this year is 149, somewhat less than last year, 86 of these being fiction and 63 non-fiction. In 1911 the proportion of juvenile books among those missing was about two-thirds. This year, only a little more than half of the number are juvenile. Considering the fact that in the spring nearly 700 volumes were added to the open shelves in the children's corner, this showing is very hopeful and seems to bear out the statement made in past years that an attendant in the reading room would do much to remedy this evil. But the fact seems to be evident that there are people to whom fiction and electricity present temptations too strong to be resisted.

Books missing.

An unusually large number of books unaccounted for in previous years have come to light this year. Last year we reported twenty found, which was a larger number than usual. This year 107 have reappeared. Ninety-two of these were from one source and came back to us after the death of one of our borrowers, who, it seems, had been helping herself more or less generously for a period of six years. This is the third instance where missing books have come back to us after the death of a borrower. It might be well for those tempted to indulge in this form of wrongdoing to contemplate the possibility of fatal results.

Books found.

High School Reading List.

In addition to the work of a very busy year, the librarian, in coöperation with Mrs. Mary H. Dowd, head of the English department of the Manchester High School, compiled a list of books entitled "Home reading for high school pupils." This is used as the basis of choice for required reading in connection with the course in English at the local high school. Many similar lists have been prepared by different libraries for the reading of grammar grade pupils but very few high school lists have been issued. Quite often libraries bear the expense of printing such lists but as our finances did not permit this expenditure, other arrangements were made which oblige us to charge ten cents each for the booklets. Many schools and libraries throughout the country have already purchased copies.

Acknowledgments.

In closing I wish to express my sincere appreciation of the loyalty of the members of the staff, of the good work done by them, of the

hearty interest they have shown in their duties and the various problems which have come up for solution, and to say that to them is due the good showing made by the year's records.

I desire also to express my grateful appreciation of the confidence and support of the trustees, without which the progress here noted would have been impossible.

Thanks are again due to the local papers for printing our book lists and various notices, and to the many who have shown their interest in the library by gifts of books, pamphlets, pictures, magazines and subscriptions to periodicals.

Respectfully submitted,

F. MABEL WINCHELL,
Librarian.

APPENDIX I.

Accessions.

Increase by purchase	1,795
Increase by gift	231
Increase by binding periodicals	256
Increase by public documents not accessioned	276
Total increase for the year	2,558
Number of accessions as last reported	66,555
Whole number of accessions	68,837
Number of volumes purchased from the Dean fund	253
Number of volumes purchased from the Eaton fund	39
Number of volumes purchased from the Smith fund	13
Worn-out volumes withdrawn from circulation	253
Number of volumes replaced	281
Number of volumes lost or injured and paid for	25
Number of volumes lost and not paid for	11
Number of volumes burned on account of contagious diseases	9
Number of magazines subscribed for	160
Number of magazines given	53
Number of newspapers subscribed for	7
Number of newspapers given	11
Total number of periodicals received	231

APPENDIX II.

Circulation and Registration.

CIRCULATION.

Number of days open for circulation of books	306
Average daily use (home)	312

Largest number any one day (March 23)	707
Smallest number any one day (December 27)	136
Largest number any one month (March)	9,683
Smallest number any one month (June)	6,421
Home circulation	95,487
Number of volumes issued to schools	2,672
School circulation (estimated from partial records)	9,886
Home circulation, including school circulation	105,373
Number of volumes delivered in reading room	14,128
Average daily use	46
Total circulation	119,501

RECORD, BY CLASSES, OF VOLUMES ISSUED.

	No. vols.	Percent.
General works	6,396	6.7
Philosophy and religion	1,427	1.5
Biography	2,127	2.2
History	2,479	2.6
Geography and travels	2,217	2.3
Social sciences	1,363	1.4
Science and useful arts	4,499	4.7
Fine arts	2,663	2.8
Literature	6,372	6.7
Fiction	65,515	68.6
Pictures	429	.5
Total	95,487	

REGISTRATION.

Active borrowers, December 31, 1911		7,249
New borrowers registered in 1912	1,029	
Registrations renewed in 1912	169	
Total number registered in 1912		1,198
		8,447
Registrations lapsed during 1912		112
Active borrowers, December 31, 1912		8,335

EAST MANCHESTER DELIVERY STATION.

(May 28–December 31.)

Number of volumes issued	2,084
Number of evenings open	32
Average per evening	65

Largest number issued (October 15)	94
Smallest number issued (May 28)	15
Total number of registrations	57

APPENDIX III.

Miscellaneous Statistics.

Number of volumes classified	2,549
Number of volumes cataloged	2,628
Number of volumes bound and repaired at bindery	847
Number of volumes repaired at library	9,878
Number of volumes covered at library	758
Number of discarded volumes sent to the County Jail	123
Number of discarded volumes sent to the County Farm	102
Mail notices for overdue books	1,978
Reserve notices paid for	2,174

SUNDAY STATISTICS.

	Men.	Women.	Children.	Total.
Attendance	3,371	1,024	6,949	11,344
Average per Sunday	65	20	133	218

CIRCULATION.

General works	4,450
Philosophy and religion	260
Biography	473
History	984
Geography and travels	612
Social sciences	388
Science and useful arts	1,634
Fine arts	1,381
Literature	4,346
Fiction	2,001
Total	16,529

APPENDIX IV.

Receipts from Fines, etc., from December 1, 1911, to November 30, 1912.

Received from fines	$390.53	
books lost or injured and paid for	21.04	

Received from reserve notices	$22.34	
miscellaneous sales	8.16	
income on bank deposit	5.62	
		$447.69
Paid for expressage, books and sundries		239.32
Balance on hand		$208.37

APPENDIX V.

Donations to Library, 1912.

The library has received as gifts 689 volumes, 2,351 pamphlets, 999 magazines, and many newspapers. Of these, 332 volumes and 1,999 pamphlets were from the government.

	Vols.	Pams.	Mags.
Advance Club .....1 program			
Allen, H. W.	..	1	..
Barker, Ella F.....772 pictures, 175 post cards			
Barr, A. T.	..	2	..
Bartlett, J. H., Subscription to Appeal to reason			
Bartlett, Ruth H.	..	..	15
Barton, S. E.	..	1	..
Boutwell, Dr. Henry W.	149	..	..
Brown, Mary E.....The Independent	..	..	88
Browne, G. Waldo	1	9	..
Buck, Mrs. Harriet A.	4	..	45
Burell, Carl	..	1	..
Burnham, H. E.	2	2	..
Buzzell, Mary A.	..	1	..
Carvelle, Mrs. H. D. W.	..	..	26
Challis, Frank H., Subscription to Industrial and commercial journal	..	4	5
Claflin, Sumner F.	1	..	..
Clarke, Mrs. M. C.	6	..	..
Coburn, Frank Warren	..	1	..
Cooley, Edwin G.	..	1	..
Cross, David...Subscription to The Dartmouth			
Current Events Club, Bedford, N. H., 1 program			
Currier, Mrs. Moody	14	..	..
Cutler, Warren N.	3	..	1

	Vols.	Pams.	Mags.
Davis, Dr. George M.	11	..	..
Delamater, A. G.	1	..	..
Eames, Mrs. Wm. M.	4	..	..
Fairbanks, Elsie D.	..	..	90
Fisher, Sidney G.	..	1	..
Fletcher, Henry F.	..	1	..
Foulke, Wm. D.	2	..	..
French, Mrs. Emma F.,			
Life and light for woman			
Missionary herald			
Frisselle, Frank M.	..	2	..
Gaskin, Elsie .....22 pictures			
Gates, Frederick T.	..	1	..
Goodman, W. P. .....1 picture			
Granite Club .....1 program			
Grant, Margaret I.	..	..	70
Hall, Harriet J.	..	1	39
Historic Art Club .....1 program			
Huse, Wm. H.	2	..	..
Interrogation Club.....1 program			
Kendall, Frank A.	1	..	..
Leavitt, Mrs. Carrie M.	..	2	..
Lewis, Walter H. .....12 sheets music	1	..	..
Louis Bell Post, W. R. C.	1	..	..
Lull, Robert W. .....6 scrap books			
Mack, Isabella G. .....43 pictures	..	..	29
Manchester Teachers' Guild.....1 program			
Messinger, Herbert E.	12	..	..
Miville, Yvonne	..	..	52
Molly Stark Chapter, D. A. R.	2	..	..
Moore, Ellen	..	10	..
Nineteenth Century Club.....1 program			
Olmsted, L. N.	2	..	..
Orient Club .....1 program			
Parker, Dr. David W.	..	..	231
Pionera Grupo,			
Subscription to Amerika Esperantisto			
Plumer, Mrs. W. H.,			
Subscription to Good housekeeping			
Prescott, D. Clinton	1	..	..
Progressive Study Club.....1 program			
Review Club .....1 program			
Reynolds, Rev. Elmer E.	2	..	..
Rogers, T. P. W.	2	2	..
Schaeffer, Henri N.	..	..	58

	Vols.	Pams.	Mags.
Singer, B.	1	..	..
Sleeper, Sanborn	..	1	..
Spofford, Mrs. Harriet Prescott	1	..	..
Stone, Mrs. J. E.	..	..	90
Straw, Gertrude	..	..	45
Sturtevant, Dr. Mills	..	1	..
Thompson, Mrs. Henry	..	..	4
Thompson, Slason	1	..	..
Tolman, Mary M. .....1 calendar	1	6	23
Towle, Anne G.	..	..	53
Upham, Mrs. Henry	1	..	..
Varick, John B., Co.	..	1	..
Varick, Mrs. Thomas R.	40	..	86
Vincent, Una	..	..	1
Wellington, Mary J. .....87 pictures			
Werber, Gustavus	..	1	..
Winchell, F. Mabel .....574 pictures	1	4	..
Woman's Alliance, Unitarian Church, City, Subscription to Christian register			
XIV Club .....1 program			

Grateful acknowledgment is hereby made to the many other donors —libraries, colleges, schools, associations, institutions, national, state and city governments, etc.—from whom reports and various publications have been received.

APPENDIX VI.

Periodicals Received, 1912.

A. L. A. booklist.
Academy of Political Science. Proceedings.
Alpine journal.
America.
American boy.
American city.
American engineer and railroad journal.
American historical review.
American homes and gardens.
American journal of science.
American journal of sociology.
American Library Association. Bulletin.
American magazine.
American naturalist.

Amerika Esperantisto.—Gift.
Among the deep sea fishers.
Annals of American Academy of Political and Social Science.
Annals of Iowa.—Gift.
Architecture and building.
Argosy.
Art journal.
Athenaeum.
Atlantic monthly.
Benziger's magazine.—Gift.
Berea quarterly.—Gift.
Biblical world.
Bird lore.
Blackwood's Edinburgh magazine.
Book review digest.
Bookman.
Boston Cooking School magazine.
Boston Society of Natural History. Proceedings.
Brooklyn Institute of Arts and Sciences. Museum news.—Gift.
Brown alumni monthly.—Gift.
Bulletin of bibliography.
Bulletin of New Hampshire public libraries.—Gift.
Business.
Camera craft.
Canadian magazine.
Cassier's magazine.
Century.—2 copies.
Chambers's journal.
Chautauqua quarterly.—Gift.
Chautauquan.
Chicago banker.—Gift.
Child lore magazine.
Children's magazine.
Christian burden bearer.—2 copies.—Gift.
Christian herald.—Gift.
Christian register.—Gift.
Christian science journal.—Gift.
Christian science sentinel.—Gift.
Collier's weekly.
Concrete.—Gift.
Connoisseur.
Contemporary review.
Cornhill magazine.
Cosmopolitan.—2 copies.
Cotton.
Country life in America.

Craftsman.
Cumulative book index.
Current literature.
Dartmouth alumni magazine.—Gift.
Das Wort.—Gift.
Delineator.—2 copies.
Dial.
Eastern and western review.—Gift.
Edinburgh review.
Education.
Educational review.
Electrical world.
Electrician and mechanic.
Elementary school teacher.
Engineering magazine.
Engineering news.
Envelope series.—Gift.
Equity.—Gift.
Etude.—2 copies.
Everybody's magazine.—2 copies.
Everyland.
Folk-lore.
Fortnightly review.
Forum.
Good housekeeping.—Gift.
Granite monthly.
Granite state magazine.
Gregg writer.—Gift.
Grinnell review.—Gift.
Hampton-Columbian.—2 copies.
Harper's bazar.
Harper's monthly.—2 copies.
Harper's weekly.
Hearst's magazine.
Hibbert journal.
Holy Cross purple.—Gift.
Home needlework magazine.
Horseless age.
House beautiful.
Housekeeper.
Human factor.—Gift.
Independent.—Gift.
Index medicus.
Index to dates of curent events.
Indian's friend.—Gift.
Industrial and commercial journal.—Gift.

International studio.
Journal of American folk-lore.
Journal of American history.
Journal of political economy.
Journal of the Franklin Institute.
Ladies' home journal.
Ladies' review.—Gift.
Lancet.
Library journal.
Life.
Life and light for woman.—Gift.
Lippincott's magazine.
Literary digest.
Little folks.
Living age.
London quarterly review.
McClure's magazine.—2 copies.
Magnificat.—2 copies.—Gift.
Manual training magazine
Metal industry.—Gift.
Metropolitan.
Mind.
Missionary herald.—Gift.
Missionary review of the world.
Modern electrics.
Motor world.
Mt. St. Mary's record.—Gift.
Munsey's magazine.—2 copies.
Museum of Fine Arts. Bulletin.—Gift.
Musician.—2 copies.
Nation.
National Fire Protection Association. Quarterly.
National geographic magazine.
National magazine.
National municipal review.
Nature.
New England historical and genealogical register.
New England magazine.
New England shoe and leather industry.—Gift.
New York School of Philanthropy. Bulletin.—Gift.
Ninteenth century and after.
North American review.
Oracle.—Gift.
Out west.
Outing.
Outlook.

Overland monthly.
Pan American Union. Bulletin.—Gift.
Pearson's magazine.
Photo-era.
Pitman's journal.—2 copies.—Gift.
Poet lore.
Political science quarterly.
Popular electricity.
Popular mechanics.
Popular science monthly.
Posselt's textile journal.
Power.
Printing art.
Protectionist.—Gift.
Public.
Public libraries.
Publishers' weekly.
Puck.
Punch.
Quarterly bulletin of the State Board of Health of New Hampshire. —Gift.
Quarterly review.
Railway age gazette.
Readers' guide to periodical literature.
Records of the past.
Recreation.
Review of reviews. American edition.—2 copies.
Revue des deux mondes.
St. Anselm's college monthly.—Gift.
St. Nicholas.—2 copies.
Saturday evening post.
Saturday review.
School-arts magazine.
School review.
Science.
Scientific American.
Scientific American supplement.
Scribner's magazine.—2 copies.
Short ballot bulletin.—Gift.
Shorthand writer.—Gift.
Speaker.
Square deal.—Gift.
Strand magazine.
Suburban life.
Sunday school times.
Sunset.

Survey.
Technical world magazine.
Textile colorist.
Textile world record.
U. S. Patent Office. Official gazette.—Gift.
U. S. public documents. Catalogue.—Gift.
Universalist leader.—Gift.
Vocational education.
Westminster review.
Whittlings.—Gift.
Woman's home companion.
Work with boys.
World's work.—2 copies.
Yale review.
Youth's companion.—2 copies.

Newspapers.

Anzeiger und Post.—Gift.
Boston morning herald.
Boston Sunday herald.
Boston evening transcript.
Christian science monitor.—Gift.
Dartmouth.—Gift.
Emerald.—Gift.
Manchester leader.—Gift.
Manchester union.—Gift.
Mirror and American.
Mirror and farmer.—Gift.
New Hampshire farmer.—Gift.
New York morning sun.
New York times. Book review
Plymouth record.—Gift.

TREASURER'S REPORT.

Edwin F. Jones, Treasurer of the Trustees of the City Library.

1912.			Dr.
Jan.	1.	To unexpended balance of appropriation for the purchase of books	$676.94
	2.	received F. E. Putney, trustee under will of Michael Prout, bequest	7,949.23
Feb.	5.	received F. M. Winchell, librarian, fines, catalogues, books lost and injured, requests and miscellaneous receipts, balance to November 30, 1911	209.48
Jan.	1.	Dean Fund	13,836.91
		Eliza A. Eaton Fund	4,275.67
		Mary E. Elliot Fund	4,249.88
		Emily A. Smith Fund	5,201.50
Dec.	31.	received income Dean Fund	562.35
		Eliza A. Eaton Fund	143.30
		Mary E. Elliot Fund	150.39
		Emily A. Smith Fund	208.04
		Michael Prout Fund	165.82
June	1.	received annual appropriation for the purpurchase of books	2,500.00
			$40,129.51

1912.			Cr.
By paid for books and papers to			
Jan.	1.	T. P. W. Rogers	$55.40
	31.	W. P. Goodman	137.59
		W. P. Goodman (Eaton Fund)	9.00
		H. R. Huntting Co	20.52
		H. R. Huntting Co. (Dean Fund)	31.00
		Imperial Publishing Co. (Elliot Fund)	92.50
		John B. Clarke Co	5.00
		City News Co	12.12
March	13.	Robt. W. Lull	27.50
		Herman Goldberger	2.65
		Sampson & Murdock Co	6.00

March	13.	Thomas Publishing Co	$5.00
		H. W. Wilson Co	3.50
		W. P. Goodman	234.63
		W. P. Goodman (Dean Fund)	9.25
	14.	T. P. W. Rogers (Dean Fund)	15.00
May	25.	T. P. W. Rogers	61.83
		T. P. W. Rogers (Dean Fund)	8.00
June	15.	American Prison Association	2.80
		Boston Book Co	7.25
		Boston Society of Natural History	16.30
		Dodd, Mead & Co	4.00
		E. P. Dutton & Co	36.10
		Freud & Co	2.75
		Freud & Co. (Dean Fund)	5.75
		W. P. Goodman	436.32
		W. P. Goodman (Dean Fund)	96.27
		Goodspeed's Book Shop	9.00
		Lathrop C. Harper	9.90
		Himebaugh & Browne	44.28
		Himebaugh & Browne (Dean Fund)	23.05
		Walter S. Houghton	2.00
		A. J. Huston	2.33
		Robt. W. Lull	18.85
		Noah F. Morrison	.90
		Pearson & Marsh	15.75
		Publishers' Weekly	6.66
		Theo. E. Schulte	1.75
		G. E. Stechert & Co	21.15
		G. E. Stechert & Co (Dean Fund)	39.05
		G. E. Stechert & Co. (Eaton Fund)	3.60
		F. J. Wilder	12.00
		H. W. Wilson Co	4.26
		R. B. Hough (Dean Fund)	4.45
		H. R. Huntting Co. (Dean Fund)	45.00
		E. D. F. McKewin (Dean Fund)	9.50
July	26.	Henry Sotheran & Co	4.08
Aug.	30.	Boston Book Co. (Dean Fund)	2.50
		M. H. Bryant (Dean Fund)	3.25
		W. P. Goodman (Dean Fund)	2.25
		T. P. W. Rogers (Dean Fund)	44.25
		G. E. Stechert & Co. (Dean Fund)	118.11
		G. E. Stechert & Co. (Eaton Fund)	13.08
		G. E. Stechert & Co	39.26
		A. H. Brown (Eaton Fund)	5.00
		Preston & Rounds Co	2.50
		F. W. Coburn	4.50

Aug.	30.	Freud & Co.	$3.50
		Union Publishing Co.	3.00
		W. H. Rademakers	10.92
		A. L. A. Publishing Board	1.20
		H. R. Huntting Co.	104.46
		W. P. Goodman	221.16
		Young Folks Educational League	32.50
Sept.	16.	T. P. W. Rogers (Dean Fund)	27.75
Oct.	30.	W. P. Goodman	295.38
		W. P. Goodman (Dean Fund)	105.26
		W. P. Goodman (Eaton Fund)	53.83
		James H. Lamb Co. (Dean Fund)	7.00
		G. E. Stechert & Co.	7.03
		G. E. Stechert & Co. (Dean Fund)	6.51
		N. J. Bartlett & Co. (Eaton Fund)	11.50
		Baker & Taylor Co.	8.58
		H. L. Baldwin Publishing Co.	1.25
		Boston Society of Natural History	4.00
		Chivers Book Binding Co.	6.60
		H. R. Huntting Co.	13.14
		Robt. W. Lull	3.50
		T. S. Rorke	1.00
Nov.	21.	Burnham's Antique Book Store	1.10
		City Library Association, Springfield, Mass.	.90
		Macmillan Co.	5.00
		Craftsman Publishing Co. (Dean Fund)	.75
		Robt. W. Lull (Eaton Fund)	1.75
		Herman Goldberger	375.10
		Herman Goldberger (Elliot Fund)	13.58
Dec.	5.	W. P. Goodman	41.93
		W. P. Goodman (Eaton Fund)	8.10
		Boston Book Co.	28.50
		F. L. Gienandt	3.00
		Geo. E. Littlefield	2.25
		Robt. W. Lull	24.55
		T. P. W. Rogers	4.05
		Sampson & Murdock Co.	3.00
		University of Chicago Press	9.00
		H. W. Wilson Co.	23.00
			$3,330.92

Dec.	31.	By Dean Fund—		
		Book No. 75,958, Manchester Savings Bank	$2,904.14	
		Book No. 16,445, Manchester Savings Bank	2,938.11	

Dec. 31.	Book No. 94,654, Amoskeag Savings bank	$2,302.15	
	Book No. 6,421, Mechanics Savings Bank	3,443.90	
	Book No. 39,195, Merrimack River Savings Bank	2,207.01	
			$13,795.31
	By Eliza A. Eaton Fund—		
	Book No. 106, Hillsborough County Savings Bank	$2,817.67	
	Book No. 39,196, Merrimack River Savings Bank	1,495.44	
			4,313.11
	By Mary E. Elliot Fund—		
	Book No. 104, Hillsborough County Savings Bank	$1,975.44	
	Book No. 6423, Mechanics Savings Bank	2,318.75	
			4,294.19
	By Emily A. Smith Fund—		
	Book No. 7189, Mechanics Savings Bank		$5,409.54
	By Michael Prout Fund—		
	Book No. 100,664, Manchester Savings Bank	$2,998.38	
	Book No. 106,269, Amoskeag Savings Bank	2,541.67	
	Book No. 7,329, Mechanics Savings Bank	2,575.00	
			8,115.05
	By deposit Merchants National Bank—		
	Balance of appropriation for purchase of books		871.39
			$40,129.51

We have examined the account of Edwin F. Jones, treasurer of the Trustees of the City Library, and find the same correctly cast and properly vouched.

EDWARD C. SMITH,
WALTER M. PARKER,
Committee on Finance of Trustees of the City Library.

I have examined the account of Edwin F. Jones, treasurer of the Trustees of the City Library, and find the same correctly cast and properly vouched.

JAMES E. DODGE,
City Auditor.

REPORT

OF THE

BOARD OF HEALTH.

REPORT OF THE BOARD OF HEALTH.

To His Honor the Mayor:

The Board of Health submits the following report for the year 1912:

Dr. Gustave Lafontaine having been reappointed to succeed himself as a member of the board, he was re-elected president, and William K. Robbins was re-elected clerk of the board for the year 1912.

The appropriation made by the city council for carrying on the work of the department during the year was $23,000, and the expenditures have been as follows:

OFFICE EXPENSES.

Salaries	$1,140.00
Labor	4,625.00
Office furniture	279.41
Printing, postage and stationery	207.32
Telephone service	87.29
Express	7.84
Disinfectants	112.39
Antitoxin	1,802.52
Diphtheria examinations	33.00
Quarantined families	.35
Carriage hire and carfares	73.13
Supplies for laboratory	80.84
Dairy inspection	75.50
Milk samples	68.52
Lighting	21.95
Automobiles (cost)	1,555.37
Automobile insurance, license, storage, repairs and supplies	251.39
Members' expenses to convention at Washington	85.00
Incidentals	50.20
	$10,557.02

ISOLATION HOSPITAL.

Salary of matron	$345.00
Fuel	743.33
Electric lighting	160.24

Board of patients	$2,414.38
Nursing	2,874.00
Telephone service	63.73
Water	37.50
Hacks to hospital	143.00
Repairs and improvements	51.48
Furniture and supplies	523.67
Labor (care of heater)	10.72
	$7,367.05

SMALLPOX HOSPITAL.

Salary of matron	$360.00
Fuel	57.55
Telephone service	21.00
Water	6.40
Electric lighting	17.44
Labor	299.00
Board of patients	106.31
Medical attendance	266.50
Vaccination	614.74
Repairs and supplies	12.82
	$1,761.76

Office expenses	$10,557.02
Isolation hospital	7,367.05
Smallpox hospital	1,761.76
Medical inspection of schools	3,271.90
	$22,957.73

Amount turned in from milk license fees	$453.00
Amount turned in from board of patients	702.58
	$1,155.58

It will be seen by the above lists that there are as usual some variations from the expenditures of last year.

With reference to the general office expenses the increase is due chiefly to a few items.

A system of shelves, drawers and closets was put in to increase the storage facilities; the cost of antitoxin varies with the number and severity of the cases of diphtheria treated, and the purchase and maintenance of the motor cars are new items of expense, incurred in accordance with a specific request of the board, which was granted by the city council.

The item of salaries is less this year than last, owing to the fact that last year two salary payments were made so as to adapt the times of payment to the new arrangement of salaries and payments of city officers.

Aid to quarantined families is practically nil, owing probably to the use of the isolation hospital by families who would require assistance.

The expense for carriage hire was mostly incurred before the motor cars were bought and should be extremely small in future.

Besides the items above referred to, the general expenses of running the department are practically the same as for several years past.

Isolation hospital expenses are higher than last year by increase in expenses for board and nursing of patients, which varies with the number treated by the city.

Fuel expense was higher owing to higher price of coal, as well as more than the usual amount of heat required from January to warm weather.

The noticeable decrease in repairs and improvements is due to the fact that such work is now done by the city inspector of buildings.

The expenses for smallpox hospital are practically the same as last year.

Medical inspection of schools cost more because the work was done during the whole year, and a per capita fee was allowed the medical inspectors for making the examinations required by law for employment certificates.

The total expenditures for the year were therefore $22,957.73, leaving $42.27, which was transferred by the city council to other accounts.

There was also returned to the city treasurer the sum of $453, collected for milk licenses and $702.58 for board of patients at the isolation hospital.

THE INTERNATIONAL CONGRESS ON HYGIENE AND DEMOGRAPHY.

The fifteenth International Congress on Hygiene and Demography, organized sixty years ago, met for the first time since its organization in the United States at Washington, D. C., on Monday, September 23, 1912, and continued in session until the 28th inst.

About thirty-three nations were represented, and more than three hundred American cities, through their mayors and boards of health, sent delegates.

There were also delegates from American universities, colleges and other institutions for social advancement.

Our president, Dr. Gustave Lafontaine, was a delegate to that great congress.

MEETINGS.

The regular weekly meetings have been held as usual on Tuesday evenings.

This gives the public an opportunity to meet the full board and bring before them any complaint or business which they wish to have adjusted, and is often taken advantage of.

Forty-one regular meetings and fourteen special meetings for trips of inspection and such business as required immediate attention were held.

BACTERIOLOGICAL LABORATORY.

One hundred and eighty-two examinations for diphtheria have been made during the year, thirty-three being positive, or true diphtheria, and one hundred and forty-nine negative. Thirty-five of the negative results were for the discharge of patients.

As in previous years these cultures have usually been sent to the Concord State Laboratory, but the examinations are made by Dr. A. G. Straw in our own laboratory when occasion demands.

There is still a strong demand for a bacteriological branch of the State Laboratory of Hygiene in this city.

PLUMBING INSPECTION.

The plumbing work during the year has been greatly increased, owing to the large number of tenement and apartment houses which have been built to accommodate the increased population.

Very little trouble is experienced in enforcing the plumbing rules, as they have become too well known and the necessity for them too well understood to be questioned.

MILK INSPECTION.

This work has been extended along lines adopted last year, whereby it was sought to instruct and encourage the production of clean, wholesome milk, rather than to hector and try to punish for offering bad milk.

Dairy inspection was much facilitated by the use of the motor car to go about with. Many new dairies were visited and a good number re-visited and re-scored by the same system, and many good improvements have been found.

Since the long-sought original package milk law went into effect there has been a marked improvement in the quality of milk retailed from stores; many samples have been taken and none found to be below standard. The dealers have accommodated themselves to this requirement with very little friction, and there is no indication of desire to return to the old dirty "loose milk" custom.

The State Board of Health has promulgated regulations for protecting food products of all kinds from contamination by exposure to dust, etc., but was much delayed by resistance to the requirements, and so could do but little until test cases could be gotten through the courts. The final decision is favorable and active work is now in progress. Citizens can help this good work of procuring cleaner food

by bestowing their custom upon those who comply in spirit as well as in the letter of this law.

The morbidity as well as the mortality of small children can be much reduced by preventing them from patronizing the rruit stores, and especially the fruit and ice-cream peddlers. This practice of selling fruit products to small children is vicious as well as dangerous—dangerous because it is not practicable to handle food, especially such as ice-cream, in the dusty streets without serious risk of contamination, and because children of tender years cannot be proper judges of what they shall eat or where they shall eat it. It is vicious because it encourages children to disregard the wishes of parents about eating. A child is very much attracted by the sight of something to eat and by seeing others eating, and is therefore sorely tempted to obtain the penny which will enable him to participate, by any means at command. It should be unlawful to sell food products to small children except in packages to be carried home to parents.

ISOLATION HOSPITAL.

This institution is used more and more as the people become better acquainted with its advantages. Its growth has been normal and continuous, and although the buildings have been repeatedly enlarged it is now inadequate to do its best work.

There were fifty-three cases of scarlet fever and one hundred and eight cases of diphtheria treated at the hospital during the year, and of this number forty-seven were private patients who paid their board, and one hundred and fourteen were cared for at the expense of the city.

During the year there have been a number of instances when a detention or convalescent ward was sorely needed. When a suspected case of dipththeria or scarlet fever is found in a doctor's office, hotel, boarding house or large family it is often very difficult to dispose of it. When suspicious, the case should not be kept among healthy children, yet when there is the least uncertainty about the diagnosis it should not be placed among those known to be infected. Therefore what is most needed is a clean, uninfected ward where a patient may be kept in safety under observation for a time.

It is also desirable to remove convalescents to a non-infected room for a time before being discharged, in order to guard against re-infection, and the carrying of infection away from the hospital.

There is a real need and a strong demand on the part of the physicians of the city for the establishment of convalescent or detention wards.

It is worth while to re-state in this connection the conditions of the use of this hospital and the regulations governing it.

RULES GOVERNING THE ISOLATION HOSPITAL.

No. 1. The Isolation Hospital of Manchester, N. H., is a city institution managed and controlled by the Board of Health.

No. 2. The matron has immediate charge and has full authority about the premises in every way, except the treatment of patients, which is directed by the physician in attendance.

She is subject to the direction of, and is responsible to, the Board of Health.

No. 3. Patients will be admitted by authority of the Board of Health or its representatives between the hours of 7 A. M. and 9 P. M.

The matron must be given sufficient notice in advance to enable her to have a bed ready.

No patients will be received except those afflicted with diphtheria or scarlet fever.

No. 4. Patients will be discharged by the matron as soon after being pronounced recovered by the attending physician as she can give the necessary bath and other preparation, and between the hours of 7 A. M. and 9 P. M. She shall also notify the Board of Health when patients are discharged.

No. 5. The administration building is to be kept free from contagion and the matron will only enter the wards in case of necessity, and then under careful precaution against infection.

Also nurses and other persons will not enter the administration building from the wards, except when made free from infection the same as when going away from the hospital.

No. 6. All persons visiting the hospital will be provided with sterile robes to wear while in the wards and none except physicians and the health inspectors will be permitted to enter the wards without special permission of the matron.

No. 7. Nurses are employed by the day by the Board of Health or its representatives, and their duty is to care for the patients under the direction of the attending physician, given direct or through the matron, and maintain proper decorum in the wards.

They may not leave the hospital without the knowledge and consent of the matron, and without proper precautions against infection.

No. 8. City patients are those who are treated by the city physician and otherwise provided for by the Board of Health.

No. 9. Private patients are admitted when there is room not occupied by city patients.

Such patients pay $4.00 per week for board and washing for each patient, private nurse or attendant, and provide their own physician.

They are also provided with such medicines only as are kept in stock at the hospital.

No. 10. City patients will be provided with antitoxin in quantity not exceeding 25,000 units for one patient.

Antitoxin (25,000 units) and medicine will also be provided for such patients as are able to provide their own physician, but not financially able to provide antitoxin, the matron being authorized to provide such by the Board of Health, or its agents, who are knowing to the facts.

The matron shall report to the Board of Health the amount of antitoxin administered to each patient with dates of administration.

Patients who can afford to are expected to pay for antitoxin.

No. 11. All laundry work is to be done at the hospital.

Adopted March 12, 1912.

SMALLPOX HOSPITAL.

The readiness of this hospital at all times was again illustrated this year. Eighteen cases of smallpox have been treated and the year closed with patients under care.

This institution is maintained solely for the accommodation of those who persistently refuse to protect themselves against smallpox, and is an encouragement to people to persist in what is mostly a whimsical resistance against vaccination.

The health inspectors, who are protected by vaccination, often remark that they would rather handle a hundred cases of smallpox than one case of scarlet fever or diphtheria.

This department provides vaccination free of expense to all who cannot afford to pay for it, and urges everyone to keep himself well protected.

JUNK DEALERS.

There has been some difficulty in procuring a full compliance with the ctiy ordinances with reference to the storage of rags and junk, and considering that part of it might be in the system, the board has dealt leniently with offenders.

To make sure of the good intentions of the offenders, the board conceded the privilege of storing the day's collection on resident premises, on condition that the same be left open for inspection, and that between the hours of one and three o'clock each day, except Sundays and holidays, the premises must be free from rags or junk, with the exception of bottles and meal or grain bags.

This system has made a fair beginning.

BURIAL OF THE DEAD.

The undertakers comply well with the law in obtaining the required permit before proceeding with the funeral ceremonies. Some slight infringements have occurred, but were amended without the necessity of prosecution.

LYING-IN HOSPITALS AND INFANT BOARDING HOUSES.

During the year three places have been inspected and certified to the state authorities as proper and suitable lying-in hospitals. One place has also been inspected and certified to as clean and suitable for the boarding of small children.

There has been no change made in the requirement of emergency surgical sets for manufacturing concerns as required by law, namely:

Under the provisions of "An Act to provide for the Keeping of Medical and Surgical Appliances in Factories," which was passed at the last session of the legislature, and became effective June 1, 1911, the local board of health has approved the following medical and surgical chest to be kept and maintained in factories and shops which come under the provision of said law, viz:

A japanned metal case, hinged cover with a secure fastener.

Contents.—Two First Help for Wounds Packets, 2 Cotton Bandages, assorted; 4 Gauze Bandages, assorted; 2 yards Red Cross Gauze, 1 ounce Cotton, 1 spool "Z-O" Adhesive Plaster, 1 tube Camphenol Ointment, for burns and scalds; 1 Tourniquet to stop hemorrhage; 1 pair Tweezers, Safety Pins, and Handbook of First Aid.

Many of the larger concerns provide a much more elaborate and complete equipment, and some have a physician and trained nurses on duty at the works while the works are in operation.

RUBBISH NUISANCES.

No year goes by without more or less complaint about the nuisances of city rubbish dumps.

The Board of Public Works has complied fairly well with the injunction of the court against making these rubbish dumps of perishable, putrescent material within the sanitary limits of the city. It costs large sums to transport this trash to the necessary distances, and even then a nuisance is made for somebody. This material is comparatively free from swill and is not immediately offensive.

It has a very large fuel value, and should be taken to some central station and consumed by fire. The heat generated would have a utilizable value and the clinker would be a safe and suitable filling for streets and low lands.

This is not a new matter, but it becomes every year a more important one, and this board solicits the coöperation of other city departments, the Chamber of Commerce, and citizens generally in a joint working out of some proper, sanitary and economical means of disposing of the city wastes.

MEDICAL INSPECTION OF SCHOOLS.

We have this time a full year's work of school medical inspection. The city is divided into six districts, or the schools into six groups,

public and parochial schools being treated alike, and a reputable, practising physician is assigned to each group or district, which includes over two thousand pupils.

Each medical inspector receives $400 per year, divided into ten equal payments, and gives a portion of his time to the work, which necessarily varies somewhat according to the interest and public spirit put into the work.

The inspectors also draw a per capita fee of thirty-five cents for filling out employment certificates for children in their respective districts, as required by the child labor law.

The inspection for vaccination is mandatory and for other communicable diseases practically so, and other examinations are advisory only.

Each pupil has an individual record upon a tabulated card as follows:

CARD No. 1.

BOARD OF HEALTH, CITY OF MANCHESTER, N. H.

Physical record of.....Sex.....Born.....

Nationality of father.....mother.....Number in family, adults.....children.....

Number of birth.....History of measles.....scarlet fever.....diphtheria.....pertussis.....pneumonia.....grippe.....

Date of first examination.....in school.....

1. School year	1			2			3			4			5			6			7			8			9		
2. Term	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
3. Class																											
4. Diseases during term																											
5. Date of phys. examinat'ns																											
6. Height																											
7. Weight																											
8. Nutrition																											
9. Enlarged glands																											
10. Nervous diseases																											
11. Cardiac disease																											
12. Pulmonary disease																											
13. Skin disease																											
14. Defect orthopædic																											
15. Defect of vision																											
16. Defect of hearing																											
17. Defect of nasal breathing																											
18. Defect of palate																											
19. Defect of teeth																											
20. Hypertrophied tonsils																											
21. Adenoids																											

22. Treatment necessary

This carries a record of his course through school, and is added to from time to time, according to what the inspector finds in the various examinations.

It is to be kept at the school and in case of transfer to another school or district, it goes with the pupil the same as his regular transfer card. This saves much time and work on the part of the inspector and teachers, as no duplicate of examination is necessary.

This card is also a valuable reference in the granting of employment certificates.

The inspectors make a monthly report to the board on blank cards like the following:

CARD No. 2.

Report of Medical Inspector for Month ending.....191...

No. of Pupils Examined..... .. No. of Teachers Examined.....

SCHOOLS											No. Cases.
No. of Pupils											
No. of Teachers											
Not Vaccinated											
Measles											
Diphtheria											
Scarlet Fever											
Whooping Cough											
Mumps											
Smallpox											
Chickenpox											
Tuberculosis											
Scabies											
Herpes											
Ringworm											
Pediculosis											
Eczema											
Nose, Catarrhal											
Eyes, "											
Ears, "											
Adenoids											
Tonsilitis, Chronic											
Vision Defective											
Hearing Defective											
Decayed Teeth											
Excluded											
Visits to Homes											

REMARKS.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....Medical Inspector.

We give in tabular form on the following pages the report of conditions found in the schools of the city during the year.

MEDICAL INSPECTOR'S REPORT OF SCHOOLS—1912.

District.	Schools.	No. Pupils.	Not Vaccinated.	Mumps.	Whooping Cough.	Chicken Pox.	Tuberculosis.	Scabies.	Herpes.	Ringworm.	Pediculosis.	Eczema.	Nose Catarrhal.	Eyes Catarrhal.	Ears Catarrhal.	Adenoids.	Chr. Tonsilitis.	Vision Defective.	Hearing Defective.	Decayed Teeth.	Epilepsy.
No. 1. Dr. W. L. Biron.	Rimmon	273	12	0	0	0	1	1	1	0	9	0	2	2	2	6	44	3	3	63	0
	St. Patrick's	120	14	0	0	0	0	0	5	0	1	2	6	0	0	4	16	3	0	34	0
	Hevey	707	258	0	0	0	0	0	11	0	6	1	9	6	4	22	73	26	8	174	0
	Holy Angels	871	100	0	0	0	1	0	4	1	36	4	35	8	12	23	124	35	5	282	0
	St. Peter's	257	130	0	0	0	0	0	3	0	1	1	3	0	0	7	17	0	0	61	0
	No. Main	375	28	2	0	0	1	0	4	0	12	1	9	2	1	6	69	8	0	154	0
	Brown	190	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	4	0
	Notre Dame Kind	280	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. 2. Dr. Zatae L. Straw.	Amoskeag	120	11	0	0	0	0	32	0	0	12	0	10	0	0	24	32	7	1	0	0
	Stark	30	3	0	0	1	1	0	0	0	0	0	10	0	0	11	11	3	0	10	0
	Webster	280	18	3	4	0	2	0	0	0	0	0	8	0	0	42	56	21	2	50	0
	St. George's	650	96	0	0	0	4	2	0	0	80	0	50	4	0	60	90	18	5	48	0
	Pearl-Street	120	3	0	2	0	2	0	0	0	5	0	10	0	0	16	24	12	1	28	0
	Ash-Street	315	16	0	0	0	0	2	0	0	8	0	24	0	0	50	60	26	6	30	0
	Straw	308	23	0	3	8	2	2	0	0	16	0	15	2	0	58	75	18	5	51	0
No. 3. Dr. C. O. Coburn.	St. Joseph's, Girls	275	27	0	0	0	0	0	0	0	45	0	9	1	0	33	72	35	9	99	0
	St. Joseph's, High	330	32	0	0	0	0	0	8	3	4	0	7	1	0	36	70	41	13	149	0
	Spring-Street	185	52	0	0	1	0	4	7	0	60	0	7	1	0	33	76	23	9	109	0
	High School	660	40	0	0	0	0	0	2	0	2	1	2	1	0	32	73	144	16	112	0
	Chandler	340	33	0	0	3	0	1	3	1	17	0	7	1	1	18	52	39	4	82	0
	St. Joseph's, Orph.	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
No. 4. Dr. R. H. Dillon.	St. Casimer's	306	53	4	0	14	0	13	25	5	46	15	33	40	8	33	37	38	20	54	0
	Maynard	249	64	0	8	0	0	19	16	3	105	0	29	34	16	38	45	35	7	77	0
	Franklin	261	26	0	0	0	0	8	17	14	41	7	18	29	11	29	28	21	9	49	0
	McDonald	387	50	0	0	0	0	2	4	2	15	1	18	11	15	26	44	35	9	68	0
	Lincoln	334	41	0	0	0	0	13	9	2	33	3	6	19	19	38	40	29	5	73	0
	St. Agnes	319	34	0	0	0	0	3	13	0	35	4	29	20	6	27	41	40	9	60	0
	St. Martha	39	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0

No. 5. Dr. E. C. Tremblay.	St. Augustine, Boys.	425	108	0	0	0	0	0	4	0	21	0	17	0	0	14	200	46	16	65	0
	St. Augustine, Girls.	600	114	0	0	0	0	0	2	0	26	0	35	0	0	15	227	27	16	82	0
	St. Augustine, Orph.	99	3	0	0	0	0	0	0	0	0	0	6	0	0	1	31	3	3	10	0
	Holy Rosary	176	35	0	0	0	0	0	0	0	8	0	16	0	0	4	65	5	4	32	0
	St. Raphael	333	36	0	0	0	0	0	1	0	13	0	18	0	0	8	104	3	5	45	0
	Varney	412	40	0	0	0	0	0	1	0	16	0	19	3	0	8	194	61	9	62	0
	Parker	397	30	0	0	0	0	0	0	0	15	0	15	2	0	9	165	11	6	61	0
	St. Edmond	48	14	0	0	0	0	0	1	0	3	0	2	0	0	0	10	2	0	4	0
	Sacred Heart	270	64	0	0	0	0	0	2	0	10	0	11	0	0	3	82	9	4	21	1
No. 6. Dr. F. N. Rogers.	Wilson	418	28	0	0	0	0	0	0	0	0	0	0	0	0	17	61	3	22	166	0
	St. Anthony	610	169	0	0	0	0	0	0	0	0	0	0	0	0	8	66	5	0	253	0
	Hallsville	414	35	0	0	0	0	0	0	0	0	0	0	0	0	13	79	4	0	289	0
	Bakersville	317	23	0	0	0	0	0	0	0	0	2	1	0	0	15	49	4	1	162	0
	Highland	51	3	0	0	0	0	0	0	0	3	0	1	0	0	5	20	3	1	35	0
	Goff's Falls	54	10	0	0	0	0	0	0	0	2	0	0	0	0	3	13	3	0	43	0
	Harvey Dist.	18	1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	9	0
	Mosquito Pond	31	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	25	0
	Webster Mills	15	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	4	0
	Youngsville	73	16	0	0	0	0	0	0	0	0	0	0	0	0	10	20	2	0	55	0
	Totals,	13,452	1,908	9	17	37	14	102	143	31	706	42	497	187	95	808	2,662	855	233	3,346	1

It is very difficult to determine the exact benefit of this inspection, as so much of the work is preventive in principle and advisory in character.

The enforcing of vaccination cannot but have been a great benefit, since an occasional case of smallpox has been found in the city during the last two years, and must have caused serious risk to the hundreds of young people who during that time have been vaccinated, and are now immune to the disease.

The difficulties of the work lie in the irregular and limited time that physicans can give to it, and the difficulty the board must experience in finding out the frequency, completeness and uniformity of the work done by the inspectors without appearing to spy upon them.

CONTAGIOUS DISEASES.

The total number of contagious diseases during the year was five hundred and seventy-five, and of this number three hundred and eighteen were measles, from which two deaths resulted.

There were one hundred and sixty-eight cases of diphtheria with fifteen deaths; sixteen cases of typhoid fever with six deaths; fifty-five cases of scarlet fever and eighteen cases of smallpox, from which no deaths occurred.

Pneumonia was as usual the most fatal of all diseases, causing one hundred and eighteen deaths; tuberculosis fifty-eight against eighty-five for the previous year, and cholera infantum claimed but thirty-seven, which is less than for any year since the records were kept.

The death rate of children under one year of age in 1912, based on the number of living births, was 149 per thousand, the lowest record for the past twelve years, and one which we believe will compare favorably with any other city of the same size and surroundings in the country, although many cities with which comparison would be desirable have no such records with which to compare.

Infant mortality is always greatest during July and August, and varies with the weather, a season of extreme heat, or sudden changes in temperature, causing many of the intestinal diseases so prevalent during the summer months.

We feel that the improvement in the quality and cleanliness of the milk supply and the efforts towards the education of mothers in the feeding and care of infants, which has been made during the last year, has been largely responsible for the decrease in the death rate of children under one year of age.

The tables of statistics and the reports of the inspectors, shown on the following pages, give some interesting information.

In concluding this report, we would extend our thanks to the public in general, and to the mayor and city government in particular, for the assistance and encouragement received from them in discharging the duties of this department.

Respectfully submitted,

GUSTAVE LAFONTAINE.
WILLIAM K. ROBBINS.
JOHN B. CAVANAUGH.

TABLE No. 1.

COMPARISON OF STATISTICS OF CONTAGIOUS AND INFECTIOUS DISEASES FOR THE PAST 28 YEARS.

Years.	Diphtheria.		Typhoid fever.		Measles.		Scarlet fever.		Varioloid.		Small-pox.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1885	*	18	*	20	*	5	*	36	*	....	....	....	*	79
1886	*	9	*	12	*	....	*	5	*	....	....	....	*	26
1887	73	17	28	18	94	4	*	9	....	....	....	...	*	48
1888	126	30	35	12	44	1	187	9	....	....	....	....	392	52
1889	79	23	36	16	259	5	54	4	....	....	....	....	428	48
1890	41	9	36	17	63	3	298	6	....	....	....	....	438	35
1891	21	2	76	18	25	....	89	2	....	....	....	....	211	22
1892	26	5	33	11	44	2	451	11	....	....	....	....	554	29
1893	7	1	79	15	110	5	212	2	....	....	....	....	408	23
1894	54	23	74	21	67	3	223	8	....	....	....	....	418	55
1895	64	22	73	21	55	4	68	1	....	....	....	....	260	48
1896	120	42	81	20	500	3	61	1	1	...	....	....	763	66
1897	162	39	78	11	387	3	54	1	....	....	....	....	681	54
1898	91	21	145	14	88	3	200	9	....	....	....	....	524	47
1899	6	9	78	12	762	5	130	3	....	...	...	....	1,026	29
1900	46	13	65	11	827	1	102	6	10	....	52	....	1,102	32
1901	21	6	55	11	15	....	48	9	16	....	178	...	333	25
1902	151	31	49	8	765	5	33	2	...	....	28	...	1,026	46
1903	172	33	62	10	112	1	37	2	1	....	161	....	545	46
1904	79	15	64	13	69	....	67	1	9	....	105	1	393	30
1905	147	31	51	9	859	4	53	1	....	....	1	..	1,111	45
1906	197	43	32	5	23	....	93	1	....	....	....	....	345	49
1907	255	29	37	8	513	3	32	....	....	....	....	....	837	38
1908	492	41	143	18	55	....	55	....	....	....	....	....	715	59
1909	331	38	34	11	747	4	85	....	....	....	....	....	1,197	42
1910	171	25	30	8	110	...	15	....	....	....	....	....	326	33
1911	118	10	37	5	172	....	47	3	3	....	26	....	403	18
1912	168	15	16	6	318	2	55	....	....	....	18	....	575	28

TABLE

SOME COMPARISONS OF VITAL STATISTICS

	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.
Population estimated	50,000	55,000	55,000	56,000	60,000	60,000	60,000	56,987
Number of deaths, exclusive of stillbirths	971	977	1,020	1,051	1,018	1,001	1,068	1,167
Deaths, per thousand of population	19.42	17.76	18.54	18.77	16.97	16.68	17.80	20.47
Deaths of children under one year	388	407	431	410	483	398	394	427
Deaths of children under five years	527	546	549	531	631	521	541	561
Mortality of infants per thousand births	.....	.....	.....	.....	.....	.....	.....	.....
Deaths from zymotic diseases	137	209	2.13	227	226	254	203	244
Deaths from zymotic diseases per thousand of population	2.74	3.80	3.97	4.05	3.77	4.23	3.38	4.28
Cholera infantum	89	40	146	129	110	122	78	119
Tuberculosis	79	74	76	112	88	73	91	100
Croup	4	24	14	20	14	10	10	6
Diphtheria	1	11	10	28	29	17	6	8
Bronchitis	44	56	59	51	86	45	65	40
Pneumonia, all forms	53	81	86	77	105	72	113	118
Heart disease, all forms	46	52	75	77	64	50	57	77
Scarlet fever	15	3	4	1	1	9	3	6
Typhoid fever	5	8	21	19	12	14	12	12
Measles	2	4	1	3	3	3	5	1
Whooping cough	2	.....	2	3	13	2	15	3
Smallpox	.....	.....	.....	.....	.....	.....	.....	.....

No. 2.

FOR THE LAST TWENTY YEARS.

1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.
56,987	56,987	60,000	62,000	62,000	64,000	65,000	67,000	68,000	70,000	70,063	73,000
1,131	1,092	1,106	1,006	1,327	1,243	1.220	1,113	1,349	1,146	1,285	1,097
19.84	19.12	18.43	16.22	21.40	19.40	18.76	16.60	19.82	16.37	18.35	15.02
450	482	405	396	485	438	477	451	504	474	516	437
554	622	556	477	677	575	594	550	656	557	632	531
218	223	212	204	220	210	205	197	223	175	198	149
283	238	225	201	267	264	231	279	318	251	296	199
4.96	4.17	3.75	3.24	4.30	4.12	3.55	4.16	4.52	3.58	4.22	2.72
121	98	92	72	79	69	67	70	91	62	84	37
81	78	87	87	109	95	80	90	101	84	85	58
5	12	17	6	12	15	10	9	5	5	.....	.....
3	22	17	10	22	30	20	32	29	20	10	15
38	55	40	31	23	34	53	26	45	38	51	37
105	120	112	101	132	120	130	79	155	127	137	118
75	54	73	55	74	79	91	82	80	67	95	83
9	2	2	1	1	1	.....	.....	.....	.....	3	.....
11	8	10	13	9	5	8	18	11	8	5	6
.....	.....	1	.....	4	.....	3	.....	4	.....	.....	2
8	5	5	4	4	17	9	9	11	4	10	1
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....

CONTAGIOUS DISEASES IN 1912.

TABLE No. 3.

Months.	Diphtheria.		Typhoid Fever.		Measles.		Scarlet Fever.		Varioloid.		Small-pox.		Totals.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January	17	1	....	....	81	1	5	....	....	....	....	....	103	2
February	31	3	4	3	40	....	2	....	....	....	6	....	83	6
March	8	....	1	....	57	....	1	....	....	....	4	....	71	2
April	4	....	1	1	27	....	7	....	....	....	....	....	39	1
May	3	....	2	1	44	....	4	....	....	....	....	....	53	1
June	8	1	....	....	41	1	8	....	....	....	1	....	58	2
July	8	....	....	....	22	....	....	....	....	....	2	....	32	....
August	6	1	1	....	2	....	3	....	....	....	2	....	14	....
September	12	1	2	1	1	....	4	....	....	....	....	....	19	....
October	14	3	2	....	1	....	11	....	....	....	....	....	28	....
November	31	3	2	....	....	....	4	....	....	....	1	....	38	....
December	26	2	1	....	2	....	6	....	....	....	2	....	37	14
Totals	168	15	16	6	318	2	55	....	....	....	18	....	575	28

TABLE No. 4.

TABLE SHOWING THE MORTALITY OF THE CITY BY DISEASES AND BY MONTHS FOR THE YEAR 1912.

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Abscess, cerebral			1	1									2
" of liver			1										1
Accident, asphyxiation										1		1	2
" burned								1	1	1		2	5
" drowned					1	5	1	1	1	1	1		11
" electrocution										1			1
" fall	2	2		2		1		1	2	1	3	3	17
" gas explosion									1				1
" railroad				1	1		1	2	1			1	7
" run over by truck team							1						1
Alcoholism		2			2		1	1				2	8
Anæmia	2		1	1	1		3		1		1	1	11
Aneurism, abdominal									1				1
Angina pectoris		1		1						1			3
Apoplexy	9	3	4	5	6	4	2	7	4	5	7	4	60
Appendicitis			1		4				1		1		7
Asthma				2			1						3
Asthenia			1							1		1	3
Atelectasis							1	1					2
Brain, congestion of	1							1	1		1	1	5
" softening of								1			1		2
Bronchitis	2	10	2	4	2	1		1		1	2	4	29
" capillary		1		1	1	2				1	2		8
Cancer		1			1			1			1		4
" of bladder								1		1			2
" bowels											1		1
" breast			1						1	1			3
" forehead								1					1
" liver			1		1	1	1	1		1			6
" mesentery				1								1	2
" œsophagus									1				1
" prostate			1										1
" rectum									1				1
" stomach	3	1	1	2	1		1						9
" tongue							1						1
" uterus						2	1	1		3		2	9
Cholæmia			1										1
Cholera infantum						4	6	9	9	4	3	2	37
Colitis, entero		1					1		1				3
" ileo							1		1		1		3
Convulsions	3	1	2	2	3	2		1	1		2	3	20
Croup, spasmodic												1	1
Cystitis		1											1
Dementia, senile							1		1	1	1		4
Dentition									1				1
Diabetes	1				1	1	2	3		2			10
" mellitus			2		2						3		7
Diarrhœa			1		1					1			3
Difficult labor									1				1
Diphtheria	1	3				1			1		3		9
" laryngeal								1		3		2	6
Dysentery									1				1
Eclampsia, puerperal				1								1	2
Embolism, cardiac	1	1											2
" pulmonary	1		2			2				1	1		7
Emphysema					1								1
Empyema						1		1					2
Endocarditis	2		3	1	1		2	2			1		12
Enteritis	2		2				1	3		1	1	1	11
" gastro	3	1	7	2	1		4	6	11	5	4	3	47
Epilepsy		1											1
Erysipelas									1				1
Fever, typhoid		3		1	1				1				6
Gangrene, senile		1						1					2

TABLE No. 4.—*Continued.*

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Gastritis	....	....	2	3	....	....	....	....	....	....	....	1	6
Goitre, exophthalmic	....	....	....	....	....	....	....	....	....	1	....	....	1
Gummata of brain	....	....	....	....	....	....	1	....	....	....	....	....	1
Hæmatemesis	....	....	....	1	....	....	....	....	....	....	....	....	1
Heart, dilatation of	1	1	....	....	....	1	1	1	1	1	1	1	9
" disease of	1	2	4	5	4	3	3	4	3	4	2	5	40
" fatty degeneration of	....	1	....	....	....	....	....	....	....	....	....	....	1
" hypertrophy of	1	1	1	....	1	....	....	....	....	....	....	....	4
" mitral insufficiency of	....	....	1	....	1	....	....	....	....	....	....	....	2
" mitral regurgitat'n of	1	..	....	1	1	2	....	....	1	....	....	4	10
" paralysis of	....	....	....	....	....	....	1	....	....	....	....	....	1
" valvular disease of	2	....	2	2	....	1	2	1	1	....	3	2	16
Hemiplegia	....	....	....	....	....	....	....	....	....	1	....	....	1
Hemorrhage of jugular vein	....	....	....	....	....	....	....	1	....	....	....	....	1
" post operation	....	....	....	....	....	....	....	1	....	....	....	....	1
" pupura	....	....	....	1	....	....	1	....	....	....	....	....	2
" of stomach	....	....	....	....	....	....	....	....	1	....	....	....	1
Hepatitis	....	....	....	....	....	....	....	....	....	1	1	....	2
Hydrocephalus	....	....	1	....	....	....	....	....	....	1	....	....	2
Hypostatis pulmonary	....	....	....	....	....	....	....	....	1	....	....	....	1
Icterus	....	....	....	1	....	....	....	....	....	....	1	....	2
Indigestion, acute	1	....	3	....	....	1	....	....	2	....	1	1	9
Intestinal intoxication	....	....	....	....	....	....	....	2	....	....	....	....	2
" obstruction	....	....	1	1	1	1	1	....	....	....	....	....	5
La Grippe	....	....	....	....	....	....	....	....	....	....	....	1	1
Laryngismus stridulus	1	....	....	....	....	....	1	....	....	....	....	....	2
Laryngitis, tubercular	....	....	1	....	1	....	....	....	....	....	....	1	3
Liver, cirrhosis of	....	2	1	1	....	....	....	2	....	1	....	1	8
Lungs, congestion of	....	....	1	....	....	1	....	....	....	....	....	....	2
Malformation	....	....	....	....	....	....	....	1	....	....	1	1	3
Malnutrition	1	....	....	1	2	....	....	....	....	1	....	2	7
Marasmus	5	2	6	5	7	3	7	7	9	9	4	3	67
Measles	1	....	....	....	....	1	....	....	....	....	....	....	2
Melena	....	....	....	....	....	....	....	1	....	....	....	....	1
Meningitis	7	1	1	2	4	....	1	2	1	....	1	..	20
" cerebro-spinal	....	1	1	....	2	....	....	1	1	....	1	....	7
" tubercular	1	....	3	2	3	....	2	....	....	....	3	1	15
Myocarditis	....	....	....	....	1	....	....	1	....	1	3	2	8
Nephritis	2	1	2	3	1	1	1	2	....	1	4	....	18
" chronic interstitial	....	....	....	1	....	....	1	1	1	....	....	1	5
Neurasthenia	1	....	....	....	....	....	....	....	....	....	....	....	1
Œdema, cerebral	....	1	....	....	....	....	....	....	....	....	....	1	2
" pulmonary	....	....	1	....	....	....	1	1	....	....	....	1	4
Œdenitis	....	....	....	....	....	....	....	....	1	....	....	....	1
Old age	....	....	1	3	....	1	3	4	5	....	2	2	21
Papilloma of bladder	....	....	....	....	....	....	....	....	....	1	....	....	1
Paralysis	3	5	2	3	....	1	2	1	....	2	1	1	21
" infantile	....	....	....	....	....	....	....	....	....	1	....	....	1
Pemphigus	....	....	....	....	....	....	....	....	1	....	....	....	1
Pericarditis	....	1	....	....	....	....	....	....	....	....	....	....	1
Peritonitis	1	....	....	1	1	....	1	....	3	3	....	....	10
Pertussis	....	....	1	....	....	....	....	....	....	....	....	....	1
Phlebetis	....	....	....	....	....	....	....	1	....	....	....	....	1
Pleurisy	1	....	1	....	....	....	1	....	....	....	....	....	3
Pneumonia	9	12	12	7	8	3	1	1	4	4	5	7	73
" broncho	10	5	4	9	3	..	....	....	....	1	5	3	40
" pleuro	2	1	1	....	....	1	....	....	....	....	....	....	5
Premature birth	8	1	8	2	3	1	3	3	6	5	3	4	47
Prostatitis	1	....	....	....	....	....	....	....	....	....	....	....	1
Rheumatism, articular	....	....	....	....	1	....	....	....	....	....	....	....	1
Rickets	....	....	....	....	....	..	1	....	....	....	....	1	2
Rupture of coronary artery	....	....	....	....	....	....	....	....	....	1	1	....	2
Sarcoma	....	....	....	....	3	....	....	....	....	....	1	....	4
Sclerosis, arterio	....	3	....	2	5	....	4	2	3	....	1	2	22
Septicæmia	2	....	1	....	....	....	....	....	....	3	2	..	8

TABLE No. 4.—*Concluded.*

Causes of Death.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Stillborn	7	7	12	13	14	13	5	7	9	6	11	14	118
Suicide by hanging	....	....	1	1	....	....	....	....	....	....	....	1	3
" illuminating gas	1	....	....	....	....	....	....	2	....	....	....	1	4
" shooting	....	....	....	....	....	1	....	....	....	....	....	....	1
Sunstroke	....	....	....	....	....	....	1	....	....	....	....	....	1
Surgical shock	....	....	....	....	....	1	....	....	....	....	1	....	2
Tetany	....	....	....	....	....	....	....	....	....	....	....	1	1
Thrombosis	....	....	....	1	1	1	....	....	....	....	....	1	4
Tonsilitis	1	....	....	....	....	....	....	....	....	....	....	....	1
Toxæmia	....	....	....	....	1	....	....	....	....	....	....	....	1
Tuberculosis	1	2	3	2	2	1	1	2	1	1	1	1	18
" pulmonary	3	4	2	3	3	3	6	1	5	3	1	6	40
Tumor Ovarian	1	....	....	....	....	....	....	....	....	....	....	....	1
Ulceration of intestines	....	1	....	....	....	....	....	....	....	....	....	....	1
" stomach	....	....	....	1	....	....	....	....	....	....	....	1	2
Uræmia	1	3	3	1	2	....	2	2	....	3	1	2	20
Totals	111	92	119	107	108	69	88	104	107	94	103	113	1,215

REPORT OF THE INSPECTOR OF MILK.

Gentlemen of the Board of Health:

I beg leave to submit the following report of the inspection of milk during the year 1912:

Number of samples milk, skim milk and cream tested..	1,635
Number of samples milk brought in by milk dealers and citizens	126
Number of samples of milk collected by inspectors....	1,505
Number of letters written to dealers and others.....	143
Number of dealers found selling without a license.....	12
Number of wagons improperly marked	7
Average total solids estimated	12.63
Average acidity from January 1 to December 31.....	.137%
Average butter fat in 30 samples cream.....	26.60%

Every sample was tested for formaldehyde and many additional tests were made for colostrom cells, coloring matter, carbonates, bacteria, benzoate of soda, salicylic acid, boric acid, cream thickeners and other adulterations.

During the year I have notified several milk dealers to appear before the board for violating the milk laws, and this has proved effective in stopping minor violations.

The number of licenses granted during the year was 340; 92 of these were granted to milkmen, 197 to proprietors of stores and 51 to people keeping cows and selling milk from their own premises.

The sum of four hundred and fifty-three dollars was collected for license fees.

Dairy farms have been inspected and scored this year.

We have used the official Dairy Instructors' Association score card (which is used all over the United States), with the following results: 118 dairy farms were scored, with an average score of 44.18, which we consider a very good showing.

We found three farms where the conditions and methods of handling milk were so bad that we thought it best to stop these dairy men from sending any milk or milk products into the city until their places were cleaned up and the method of handling milk was changed.

We find that the average milking pail is the source of a great deal of the contamination of milk; that the pail with the wire gauze strainer is the filthiest of all, and almost always the spout is coated with milk in various stages of decomposition. We do all we can to

discourage the use of this pail, and recommend the small-top milking pail, which, with reasonable care, will insure clean milk and is easily cleaned and kept sanitary.

We propose to make a return visit to all farms that fail to come up to a certain score, and if conditions are not improved enough to bring the score up to 40, or perhaps 50, we will make a formal complaint to the State Board of Health, under chapter 15, Statute Laws of 1911.

Under the title "What Adulteration and Misbranding Are Under the Law," is the following in regard to milk:

"Milk.—The standard requires not less than twelve per cent of total solids. Milk containing any visible sediment (manure, bedding, hairs, etc.) will be deemed as adulterated under the law, as will milk produced from sick or diseased animals."

Thus the importance of clean milk is readily seen, and its production under clean, sanitary conditions is one of the most essential things in bringing about good results.

Supplying milk to 75,000 people is a problem which presents many difficulties. The farmers, dealers and consumers have to be considered in ordering changes and improvements necessary to insure a sanitary milk supply. Credit should be given the careful and conscientious producer and his product should be given the preference.

It is possible to produce high-grade milk in a common cow barn by taking just a little more pains and by using modern methods, with almost no additional cost.

What we are after is to have a milk of known purity, which has been properly handled and which we can stand back of and say, this "inspected milk" is of superior quality and more suitable for infants and invalids than the common milk.

To this end we propose to grade milk in three grades, i. e., certified milk, inspected milk and common milk. (See Public Statutes, chapter 108, Laws of 1911.)

This would be a great benefit to all and should not increase the cost of any but the certified milk, and should decrease the price of common milk.

Take producers A and B for instance:

Producer A keeps a large herd of cows and makes a regular business of raising milk; he takes pains to keep his cows clean and healthy, his barn clean and well ventilated; he has a milk room where he sterilizes his milking pails, cans, bottles, etc; he cools his milk immediately, bottles it and keeps it cool; he watches every ailment of his cattle and discards any milk from sick cows; he owns the farm and is trying to educate his children. He is the farmer that should be encouraged, and fortunately we have many of this kind.

Producer B has a farm where the chief product is other crops than milk and milk is a by-product; he has no customers who are consumers, but sells his milk to dealers who make a business of peddling

milk. His methods are crude and his whole place is out of date and repair; he does not always take as much pains to produce wholesome and clean milk as he should. His milk supply we do not consider as suitable for children or invalids as that from producer A, but it is a good food for common use, and adults would not suffer any by using it.

The milk of good and of inferior quality is mixed by the dealers, then bottled and sold as "pure milk," "baby milk," "extra quality milk," etc. The label does not mean anything.

The State Board of Health proposes to have milk marked so that any person who wants better milk will know it by its label.

According to the Laws of 1911 milk produced under certain rules can bear a label marked "certified milk" or "inspected milk," and this privilege will be granted only to those who are entitled to it.

We have been using for some time the Gerber dirt filter and Wizard Sediment Tester, which shows on a cotton pad the amount of dirt contained in a pint of milk. These pads are mounted on a neat card and mailed to the milk producer. This practical and easily seen condition of the sanitary quality of the milk has done more to make clean milk than any other thing we know of.

When the milk producer has a card sent to him showing the actual amount of insoluble dirt strained from a pint of his milk on a filter pad, if dirty, he sees at once that something is wrong with his methods, and starts a little investigation on his own account, but if I tell him his milk has over 500,000 bacteria per cubic centimeter, he has no idea that it indicates dirty milk or dirty methods, and will swear that he has taken every reasonable precaution.

Many producers request us to make sediment tests for them so that they can see how clean or dirty their product is. We are always ready to assist every one in any way that we can.

We feel that the past year was one of great progress, as we were able to get an amendment passed by the city government which requires all milk to be sold in capped bottles or receptacles, approved by the Board of Health. Several hearings were held by the aldermanic committee, and interested producers and consumers were present and took part in the arguments for and against the measure.

We have had almost no trouble with milk not being up to standard since this new rule went into force, whereas before we were continually finding the last of the milk in the large cans below standard in butter fats and solids.

Three milk raisers were found selling milk adulterated with water, and as they were located outside of the city they were turned over to the State Board of Health for prosecution.

During the hot summer months a milk station was located in a tent on Merrimack common, in charge of philanthropic societies, where modified milk could be procured by families desiring it.

I heartily approve of milk stations, and hope to see the time when municipal milk stations will be located in different parts of the city, as they seem to me to solve the problem of providing proper food for infants and also to educate the mothers and the public in the care of milk and the feeding of babies.

The city pays out thousands of dollars annually for the care of contagious diseases, to provide schools for education, for protection from fire, etc.; why not spend something for preventive measures, such as milk stations, which would be a benefit to the rising generation?

Respectfully submitted,

CARL O. SEAMAN,

Milk Inspector.

REPORT OF PLUMBING INSPECTOR.

PLUMBING FIXTURES SET.

Number of tank water closets	1,271
sinks	923
bathtubs	753
wash basins	1,003
wash trays	518
urinals	42
refrigerators	22
slop hoppers	6
shower-baths	12
frost-proof closets	9
Other fixtures not classified above	26
Total number of fixtures put in	4,535

Number of plumbing notices filed	546
water tests of soil pipe made	903
rain leaders	201
stacks of soil pipe made	702
smoke tests of soil pipe	43
defects and leaks found	163
complaints investigated	20
fixtures and pipes found unserviceable and repaired	35
letters written	42

One hundred and seventy-eight consultations with owners, tenants, agents, plumbers, etc., were held.

A total of 2,757 inspections were made of the work during its progress and after its completion.

The year 1912 has proved to be the busiest year of which I have any record, more plumbing fixtures being put in buildings than ever before.

I have used the new motor car in making many of these inspections and find that it saves time and car fares. One man can do more work, and make more calls than three men can do using the trolley cars.

One of the most important jobs completed is the Public Comfort, located in Merrimack common. This place is a great credit to the

city, the sanitary fixtures and, in fact, the whole structure being modern and convenient in every respect.

The Board of Health has ruled that no direct pressure flushing valve shall be used on water closets unless the main water pipe, from the street main to the water closet supplied, is at least one and one quarter inches in diameter throughout its whole length. This is the only recent change which has been made in the plumbing rules.

Respectfully submitted,

CARL O. SEAMAN,
Plumbing Inspector.

SANITARY INSPECTOR'S REPORT.

Gentlemen of the Board of Health:

We beg to submit the following as the report of the work of the sanitary inspectors for the year 1912:

Vaults and privies inspected	29
Vaults inspected after cleaning	11
Water closets inspected	866
Urinals inspected	43
Sinks inspected	809
Yards and alleys inspected	1,419
Cellars inspected	698
Barns and outbuildings inspected	96
Tenements inspected	444
Barn cellars inspected	87
Teams and riggings of excavators inspected	11
Soaperies and slaughter houses inspected	9
Vaults and privies ordered cleaned or repaired	10
Yards and alleys cleaned	328
Cellars cleaned	169
Barn cellars cleaned	11
Sheds, etc., cleaned and inspected	68
Tenements cleaned	15
Water closets cleaned or repaired	346
Sinks trapped or repaired	67
Leaky drain pipes repaired	46
11 cesspools were inspected and 9 ordered cleaned.	
63 swill boxes and chutes were inspected.	
Houses within 100 feet of the public sewer and not connected therewith	34
Filthy hallways and roofs ordered cleaned	34

Openings other than leaks in the drainage system were found in 11 places and same were ordered closed by the department.

One hundred and eighty-seven bathtubs and washtrays were inspected.

Sewage was found runing upon the surface of the ground in 23 places, and such nuisances were abated either by entering the sewer or carrying away in some manner not offensive.

In doing the work of the department it has been necessary to make 3,498 calls and to write 441 letters.

Four hundred complaints have been investigated.

In 367 cases the inspectors have been able to give relief, and in 33 cases it was found that no cause existed or that same was beyond the control of the department.

Thirty-eight complaints were made against the scavenger service; in each case the proper parties were notified and relief afforded.

Twenty-four persons were found throwing garbage in the back streets and were warned against the practice.

Private swill collectors have been warned 70 times to be neater in their work.

Forty-two dead animals have been properly disposed of.

One hundred and two hens and small animals have been removed from cellars.

Thirty-five swine and cows have been discovered being kept within the sanitary limits of the city without licenses. The same were ordered removed or licenses procured.

Seven notices have been prepared and served and proper returns made.

Sixty-one catch basins or street cesspools have been inspected, and 19 have been flushed or repaired by order of this department.

A sanitary inspection has been made of 75 bakeshops and 27 stores, and 11 bakeshops have been ordered cleaned. Theaters have been inspected 5 times, circuses 3, and sausage factories 12 times.

Twenty-one slaughter houses and 3 shoe factories were inspected.

Twenty junk dealers were found storing rags and junk without a license.

The dumps have been inspected 34 times; found unsanitary 11 times. One hundred and twenty-five nuisances not otherwise classified have been abated through the efforts of this department.

Permits to the number of 1,501 have been granted for the burial and removal of dead bodies, and the returns forwarded to the city registrar.

A statement of mortality has been prepared each month and copies sent to about 300 other towns and cities, to local physicians, etc.

Weekly reports of contagious diseases have been sent to the State Board of Health at Concord, the Marine Hospital service at Washington, D. C., and to the superintendent of schools, and the city librarian. Samples of water, oysters, and ice cream were sent to the state laboratory for analysis.

Contagious and infectious diseases have been reported as follows: Measles, 318; diphtheria, 168; typhoid fever, 16; scarlet fever, 55; smallpox, 18; varioloid, 1; total, 575.

In some cases disinfectants were being used and the inspectors ordered their use in other cases. At most of these places instructions

were given as to their use, and in many cases the department furnished the disinfectants.

In some cases patients were found well isolated, and in other cases inspectors were obliged to order isolation, and in all cases to give instructions as to the steps to be taken.

Houses were watched to see that the rules of isolation were complied with and several funerals were attended to prevent a too public observance of the same.

Sixteen hundred and forty-two rooms where diseases had existed were fumigated by the inspectors; 367 of these were for tuberculosis.

Respectfully submitted,

JOHN F. LOONEY,
WILLIAM B. BLAKE,
JOSEPH X. DUVAL,
Sanitary Inspectors.

REPORT

OF THE

SUPERINTENDENT OF SCHOOLS.

SUPERINTENDENT'S REPORT.

To the School Board, the City Council, and the Citizens of Manchester:

The following is presented as the sixty-sixth report of the school department of the city. It is the fifty-seventh report of a superintendent and the thirteenth of the present officer. The statistics are concerned chiefly with the school year ending July 15, 1912.

THE YEAR'S WORK.

Among the accomplishments of the year are to be noted,—the completion of two new school buildings; the inauguration of a card system whereby a complete record of a pupil's progress through school may be known; the fixing of the age for the admission of beginners at six instead of five years; the acceptance of the new course of study for the grades and its embodiment in permanent form; the adoption of a complete course of study, the establishment upon a firm basis of the department head plan and the systematizing of afternoon work, in the high school; the action of the board authorizing industrial training in coöperation with the industries of the city; the extension of the play movement; the tacit acceptance of cooking as a legitimate branch of school work; a continuation of the policy of maintaining separate classes for non-English speaking children; a more favorable showing in the matter of over-age children in the grades, and the increase in salaries of grade teachers and principals.

NEW SCHOOL BUILDINGS.

At a special meeting of the board, held on Friday, November 8, the Brown and Maynard school buildings were formally accepted by the city. Both buildings were opened on the following Monday, the Brown with 180 pupils and the Maynard with 282 pupils, as shown by the first monthly report.

The Brown school is 133 feet by 45 feet, with 5,985 square feet of floor space; the Maynard is 120 feet by 63 feet, with 5,400 square feet of floor space. The two buildings are of the same type and similar in construction. The foundation of each is of concrete and the walls of brick with concrete trimmings. The partitions are of hollow tile plastered on both sides; the floors of cement. The construction is fireproof, the wardrobe frames, doors, door jambs, window frames, and floor of maple laid over the cement, alone being of wood.

Each building contains eight school rooms 25 feet by 30 feet, with

a height of 12 feet, normally accommodating 42 pupils each. The wardrobes are situated in the corridors and are capped by a copper ventilating flue with a steam pipe at the base. Convenient teachers' rooms, book rooms and a principal's office are provided in each.

The sanitary arrangements are of the best. A vacuum cleaning system is installed in each building, thereby abolishing the dust nuisance, so great a menace to health. Sanitary drinking fountains are provided in the halls and basements. The heating is both by direct and indirect radiation, the latter also providing for ventilation. The ratio of window surface to floor surface is large, giving ample light.

There has been expended up to the present time for the erection and furnishing of the Brown building $43,988.75; of the Maynard building $42,907.74. The cost of the Brown site was $7,200, of the addition to the Maynard site $7,500. The total expenditure for the two structures has been $101,696.49.

CARD SYSTEM.

In accordance with a recommendation in the annual report of last year, a card system has been adopted and put into operation whereby a complete record is to be kept of the progress of every pupil in the public schools.

The card records the full name of the individual, gives place and date of birth, tells whether vaccinated or not, gives the name and occupation of parent or guardian, place of residence, former place of residence, school last attended, grade, date of discharge, age when discharged, or shows graduation. There is also opportunity for a complete record of the pupil's progress through the grades, showing the room attended, number of days present, health, conduct and scholarship, with space to record any other unusual or peculiar circumstances in his school history. A duplicate of this card is filed in the superintendent's office so as to be immediately accessible. All transfers are recorded at the superintendent's office and each school notified of pupils whom it may expect. In case of the non-arrival of a pupil, the truant officers are called on and immediately investigate the case. The cards of pupils leaving school to go to work are filed by themselves.

The data to be obtained from these cards will be of greater and greater value with each passing year. It is, as at present arranged, impossible for a pupil to leave school and disappear from sight.

The number of pupils transferred averages two a day. The number leaving school for work in the first three months was eighty-one.

ADMISSION OF BEGINNERS.

At a meeting held on February 2, 1912, a special committee reported a new set of rules which the board adopted and ordered printed. Among the new provisions was one that fixed the age of admission

for beginners at six instead of at five years. This caused some temporary inconvenience because of the fact that certain children who had completed the kindergarten course of two years were still under the age of six years and hence not eligible for school. These pupils were readmitted to the kindergarten and will be able to enter the first grade at the middle of the year. A recurrence of this condition has been prevented by admitting to the kindergarten during the past term those children only who are four or more years of age.

Previous reports have shown that from fifteen to eighteen per cent of the first year pupils failed to advance. This measure is expected to reduce these figures.

COURSE OF STUDY.

The admirable working of the new course of study is a source of satisfaction to all engaged in the work of instruction.

The fact that the curriculum of the schools provides no practical training, that it is designed solely to fit pupils for the high school, without regard to their future work, is a serious drawback to the service which the schools should render to the whole community.

For the girls there should be provided a complete course in domestic science, with a competent head and suitable assistants; for the boys, some form of hand work in every grade and in the seventh and eighth years especially, an opportunity to acquire practical experience in the industries and trades of the city.

This is not a proposition to commercialize the schools or to exploit them for the benefit of the trades. It is good education and it is good business. The result would be greatly increased power on the part of pupils both to do and to comprehend. Application, judgment, and initiative, lack of which is the cause of criticisms of the public school product today, can be developed effectively and economically only by such work.

The high school course of study has received the approval of the State Department of Education. It offers three courses, a college course with or without Greek, also preparing for admission to technical schools, a general course, and a commercial course.

It exhibits in regard to training for practical work the same defect that appears in the elementary course. The commercial course alone provides a single opportunity for training for a vocation.

Drawing is an optional study and is offered during the first two years for one period per week. The appearance drawing, the art side of the work, I believe to be excellent. The mechanical side, from the nature of the situation and the time devoted to it, is obviously meager in quantity and lacking in scope. A permanent teacher of mechanical drawing should be employed for the school and the course be required for preparation for technical schools.

The constantly advancing standards for admission to the colleges

places upon the high school yearly an increasing burden. The result must be a differentiation in courses lower down in the grades and the beginning of college preparatory work in the eighth year of the elementary course. Present requirements demand a five-year course for the best preparation. This may be done by establishing a sub-high school class for college preparatory work and placing in this class those who intend to enter collegiate institutions. The erection of a technical high school will leave ample room for such classes in the present high school building.

Competent teachers as heads of departments have directed and assisted their associates for one full year. The plan has won the hearty approval and support of the principal and teachers.

The expected unification of the work in the different studies has been to a degree accomplished. I learn that the teachers have been brought nearer together; that, upon the rearrangement of divisions, less review work has been necessary; that written work has been done and corrected more faithfully; that the proper emphasis has been uniformly placed upon the proper topics; that even the pupils themselves feel that all are receiving the same treatment. The entire reasonableness of the plan has been fully vindicated.

Promulgated as an efficiency measure, the board decreed that opportunity for afternoon work should be given to pupils of the high school. It had long been the custom for teachers individually to devote extra time to some pupils who needed assistance. Some years ago a rule was passed permitting the principal of the school to require the attendance at school in the afternoon of certain pupils whose work was not up to the standard.

Two classes of individuals are in need of help, first those above mentioned; second, those who are ambitious and desire to accomplish more than can be done in the ordinary school time. In order to attain both objects, it was ordered that a schedule of teachers should be made out with dates for their regular attendance at school on afternoons. This schedule was constructed with the object in view of providing instructors in as many subjects as possible on as many days as possible without unduly burdening the teachers. Accordingly, opportunity for work in English was provided on every afternoon, in Mathematics, Latin, History and French on three afternoons, in Commercial branches on four afternoons, in Science on two afternoons, in Greek and German one afternoon and otherwise by appointment. By this schedule each teacher returns one afternoon per week, except that two teachers on alternate weeks return twice in the same week.

COOPERATIVE INDUSTRIAL TRAINING.

A special committee of the board, at a meeting held June 28, 1912, recommended that the city adopt the plan of coöperative industrial training and that the high school sub-committee be instructed to

secure a competent person to act as head of the department and take charge of the same. The recommendation was adopted. Because of the fact that it was not known how many, if any, of the pupils would take this course, it was deemed wise by the sub-committee to wait until school was opened in the fall and then present the matter to the boys of the fourth class. This was done in the presence of the members of the sub-committee. The young men were requested to talk the matter over with their parents, and those interested were to leave their names with the principal of the school, after which a meeting of parents and pupils would be held at which the plan would again be discussed. Responses up to the present time have not warranted action by the sub-committee toward securing a teacher.

The plan is in imitation of that originated in Cincinnati, and as carried out in the city of Fitchburg. It is, briefly, an arrangement entered into by the industries of the city and the schools whereby students may spend alternate weeks in school and in the shops. As proposed, a student electing this course would be employed in the industry which he should select, during the summer vacation, at apprentice wages. Upon the opening of school, in alternation with another student, he would attend school one week and devote himself to the shop on the next week. The work in the school would be conducted with special reference to the shop work. The science, Mathematics, English, Drawing, Geography, and Civics would be of such a character as to fit him especially for the business in which he is engaged. The first year work is designed to be wholly within school, the other three years to be of the alternate character mentioned above. After the trial work of the vacation, a student, if dissatisfied, is given an opportunity to change his election. The course is designed to aid young men to discover their aptitudes and to forward them in the path of their chosen vocation. The wages paid at the beginning are the regular apprentice wages. An opportunity is afforded for a young man to be in a large measure self supporting during his high school course, as well as to be entirely so upon its completion.

COOKING.

The school report for 1906 presented the experience of the pupils of the Hallsville school in the art of cooking, and urged the wisdom of making a course in cooking a part of the regular school curriculum. Since that time, upon requests preferred by the principal, gas stoves have been purchased for the Wilson, Lincoln Street, Straw and Varney schools. The board by its action has tacitly admitted the value of such work. There is no necessity for again presenting the arguments in its favor. I recommend that cooking be made a part of the regular public school course and that a competent teacher be appointed to direct the work.

NON-ENGLISH SPEAKING CLASSES.

Special classes for the instruction of non-English speaking pupils have been maintained at Montcalm hall, in the Varney school, in the Spring Street school and in the Merrimack street, now the Maynard district. The average membership in these classes has been 226 and seven teachers have carried on the work. At the opening of the present term the class in the Varney school building was discontinued; the other three are still maintained, the residue of the pupils formerly in Montcalm hall having been transferred to the Rimmon building.

TABLE I.—DECEMBER 5, 1912.

Ages in Years.	Grades.								Special Classes.	Totals.
	1	2	3	4	5	6	7	8		
Under 5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5	23	.....	.....	.....	.....	.....	.....	.....	.....	23
6	355	100	7	.....	.....	.....	.....	.....	.....	462
7	179	255	73	4	.....	.....	.....	.....	.....	511
8	80	173	197	63	.....	.....	.....	.....	.....	531
9	31	80	195	160	33	3	.....	.....	2	504
10	16	48	126	220	143	14	.....	.....	11	578
11	6	19	72	118	179	89	17	2	14	516
12	3	11	47	104	119	171	85	14	25	609
13	1	6	23	75	100	131	117	75	38	566
14	1	3	7	40	38	70	93	128	42	422
15	.....	1	4	4	13	22	41	75	16	176
16	.....	.....	.....	1	3	2	7	23	8	44
17	.....	.....	.....	.....	.....	1	1	3	2	7
18	.....	.....	.....	.....	.....	.....	1	1	.....	2
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	695	696	751	789	658	563	362	321	158	4933
Over age	138	168	279	342	303	226	143	102	.....	1701
Percent over age	20.0	24.0	37.0	43.3	46.0	44.9	39.5	31.7	.....	34.4
Under age	378	355	277	227	176	106	92	91	.....	1702
Percent under age	54.3	52.4	36.8	28.7	26.7	21.0	25.4	28.3	.....	34.4

158 = 3.2% in special classes

A table, No. I, is given, which shows the distribution of pupils in the public schools by ages and grades. This table presents the condition on December 5, 1912. One year ago a similar table was presented, data having been taken on December 5, 1911. An eight-year course of study was put into operation in 1911 and the first table shows the distribution after the trial year of the new course. The second table shows the distribution after the final acceptance of the course.

A heavy horizontal line in each column indicates the age for the grade; all below are above normal age for the grade. A comparison of the tables for the two years shows fewer over-age children in 1912 than in 1911 in every grade except the eighth, and that the percentage is smaller in every grade except the first. This increase in the first grade is due to the fact that the age for admission to school was raised from five to six years and the first grade is smaller than in 1911 by 259 pupils.

The number of over-age children has decreased from 2,118 to 1,701, from 40 per cent to 34 per cent. The number of under-age children has increased from 1,592 to 1,702, from 30 per cent to 34 per cent. The number of grade age has remained practically the same, there being a difference of but 8 in the two years. The percentage of grade age for 1911 was 30, for 1912, 31.2. Three and two-tenths per cent of the pupils were in special classes.

ATTENDANCE.

The enrollment in the public day schools for the year has been as follows: 228 in the kindergartens, 97 in ungraded schools, 6,020 in the grades and 694 in the high school, a total of 7,039. This enrollment is larger by 736 than that for the year 1911. The average membership has been 5,910, the average daily attendance 5,469. These figures exceed those of 1911 by 527 and 523 respectively. Enrollment, membership and attendance are the largest in the history of the schools. An increase of 523 pupils in attendance every day is phenomenal. The greatest prior increase was 353, in 1902. The total growth in daily attendance in thirteen years has been 1,471, an average of 113 per year. It will be seen that the increase of the present year has been more than four and one half times the above. Past experience would indicate that the figures for the year 1913 will be considerably smaller than for 1912. Especially is this to be expected because of the raising of the age for the admission of beginners and because of the decrease in the number of children in the non-English classes.

Promptness is a matter both of temperament and of training. As an encouragement of this virtue tables have been published from year to year showing the relative standing of the different schools in the matter of tardinesses. The table is again appended.

TABLE II.

Schools.	Average Membership.	Tardinesses.
High	646	2,552
Amoskeag	116	138
Ash-street	310	171
Bakersville	279	204
Chandler	291	59
Franklin-street	249	361
Goffe's Falls	59	237
Hallsville	420	481
Highland	59	99
Lincoln-street	317	387
Main-street	361	314
Maynard	227	978
Parker	311	440
Pearl-street	122	79
Rimmon and Montcalm	366	1134
Spring-street	178	424
Straw	281	95
Varney	400	744
Webster-street	268	196
Wilson	332	182
Youngsville	88	107
Ungraded	78	933
Kindergartens	152	.....
Totals	5,910	10,315

Tardinesses were more numerous by 2,350 than for 1911 and averaged 1 7-10 per pupil. The average for 1911 was 1 4-10 per pupil. The following schools, in the order named, are deserving of special commendation for promptness: Chandler, Straw, Wilson, Ash-street, Pearl-street, Webster-street and Main-street.

ACCOMMODATIONS.

The completion and occupancy of the two new school buildings has relieved the overcrowding of pupils in two sections of the city. The schools housed in Montcalm hall and Mission chapel have been discontinued and the pupils placed in the new buildings. In the Brown

and Rimmon district there should be sufficient sittings for some time to come. In the Maynard building there are already enrolled 282 pupils, the capacity of the structure being but 336. Another year will see all of the rooms occupied.

The report of one year ago called attention to the needs of the Youngville section of the city and recommended the duplication of the present school building by the addition of two rooms at the rear of the structure. At the opening of the fall term it was impossible to provide seats for all the children in the district. Accordingly 21 pupils in grades 8, 7, 6, 5, 2, and 1 were transferred to the Lincoln-street and Wilson schools, the city paying for the transportation at a cost of $4.10 per day. With this relief it was possible to provide for children who, up to the time of the transfer, had not been admitted to the school. The cost of this transportation for 185 school days will be $758. The two-room additions to the Bakersville and Rimmon buildings cost $7,500 apiece. Figured on this basis, the city is paying for a year's transportation a little over ten per cent of the cost of an addition to the building. There are belonging in the district about 117 children. I recommend that this board ask of the City Council an appropriation for additional school accommodations in this section of the city.

Two years ago two rooms were added to the Bakersville building, partially because of the protests of the parents in that section of the city against the teaching of children in the two rooms on the third floor of the building. Fire escapes have since that time been erected so as to give ready exit from this third floor, and it is now occupied by a class of 41 pupils. There is room for as many more. The present indications are that, when the next class of beginners enters school, it will become necessary to so use the space. The Wilson school, part of whose territory is contiguous to that of the Bakersville school, is full, having 390 pupils. Distance also precludes relief by means of the Lincoln-street, Maynard and Franklin-street schools. The district is a growing one and in the near future will require increased sittings for children. The time to provide these is during the coming year. An investigation of the residences of the pupils does not indicate a location which would adequately relieve the Bakersville school and the conclusion of the report of last year, that a modern full grade building, of twelve rooms at least, should be erected upon the Bakersville site, still seems to be the best solution of the problem.

The Parker school kindergarten and the Straw school kindergarten have been moved from their respective buildings to make room for the grades, the former to the Varney school hall, the latter to the Straw mansion. The Varney building is well filled. The Parker alone must be looked to to take care of any increase in the southwestern section of the city. The Straw-Webster section of the city apparently has ample room for the present.

The Chandler school, built to relieve the Pearl-street, Lincoln-street and Ash-street sections has, including the kindergarten, 359 pupils. It will soon be necessary to move the kindergarten to other quarters in order to provide room for the grades.

In but one other district, the Wilson, are there present indications of lack of room. The school has 390 pupils in nine rooms. All the space fit for school rooms is in use. Further increase will necessitate a change in boundaries and the transfer of some pupils to the Hallsville school, where there is still a vacant room.

CHANGES AND TRANSFERS.

Changes and transfers among the teachers of the various schools have occured as follows:—In the high school, Miss Nellie K. Jones was secured as an additional teacher in January, 1912. Miss Mabel Parsons, Miss Madge Tasker and Mr. Fred H. Hodgson tendered their resignations at the close of the year. To fill the vacancies thus created, as well as to provide a larger teaching force, Miss Anna M. Brown, Miss Katherine Barss, Miss Anna M. Berry and Miss Florence Dinsmore were elected permanent teachers and Mr. Warren Lyman was secured as a substitute teacher.

At the Bakersville school, Miss Mary L. Heath and Miss Bessie J. Bartlett tendered their resignations at or near the close of the school year. Miss Kathryn McKeon of the same school was transferred to the grade vacated by Miss Heath. Miss Phoebe Riley was transferred from the Webster's Mills school to the second grade, vacated by Miss Bartlett. Miss Frances Murphy was elected to the first grade vacated by Miss McKeon and Miss Florence Jarvis was elected permanent teacher of the fourth grade.

At the Franklin-street school Miss Hattie E. Read resigned her position as teacher of the fifth grade and Miss Hazel Garmon was elected to the vacancy.

At the Hallsville school Miss Mildred Eager was elected permanent teacher for the fourth grade.

At the Lincoln-street school Miss Lois D. Beck and Miss Katherine A. Frain resigned at the close of the year. Miss Ethelyn M. Stearns and Miss Frances L. Farrell were elected to the two resulting vacancies.

At the Manual Training school Mr. John Black, Jr., was elected an assistant in place of Mr. G. H. Donham resigned.

At the Parker school, Miss Mary L. Ayer was transferred from the sixth grade to be principal's assistant. Miss Frances Landers succeeded Miss Ayer as teacher of the sixth grade. Miss Ethel Bartlett tendered her resignation at the end of the school year and Miss Marion Partridge was transferred from the Mosquito Pond school to fill the vacancy. Miss Agnes Montgomery was elected teacher of an additional room opened in the same building.

At the Rimmon school, two vacancies occurred at the close of the school year, one in the principalship, the other in an assistant teachership. Miss Blanche Hicken was transferred from the sixth grade of the same building to be principal, vice Mr. Bowen, and no election was made to fill the vacancy caused by the resignation of Miss Susie Huff.

At the opening of the Brown school, the following teachers were transferred from the Rimmon building,—Miss Hicken as principal, Misses McKenna, White, Hodgman and Moore, while the following teachers remained at the Rimmon,—Miss Pepin as principal, Misses Bryson, Mary S. White and Lowe.

At the Straw school, Miss Ethel Church resigned as head kindergartner during the fall term. The school was conducted for the remainder of the year by Mrs. Jeanette Watson. Miss Elsie Dustin and Miss Katherine Winegar were elected principal and assistant respectively for the year 1912-13. Miss Maude Willand was transferred to an extra room of mixed sixth and seventh grades, and Miss Marjorie Holt was elected as an additional teacher to fill the vacancy caused by the transfer of Miss Willand.

At the Varney school Miss Jennie V. Williamson was granted leave of absence for a year. Miss Bertha Marden was transferred from the fifth grade to be master's assistant. Miss Mary E. Walker was transferred from the Highland school as a substitute for Miss Marden. Miss Laurette McKendree resigned as teacher of the second grade and Miss Martha Lenz was elected to the vacancy thus created.

In the suburban schools Miss Agnes Bruton was elected to succeed Miss Partridge of the Mosquito Pond school, transferred. and Miss Edna Blood was elected to succeed Miss Riley, transferred from the Webster's Mills school. Miss Nellie K. Bates, who had served as substitute in the Stark district, was elected permanent teacher of the same school.

HONORARY MENTION.

The end of the present year will mark the close of the term of service of eight members of the present school board, who have labored earnestly and zealously for the cause of education in the city of Manchester.

Mr. Harry L. Davis was elected a member of this board to represent ward six in the fall of 1898 and was sworn into office in January, 1899. His term of service has covered a period of fourteen years. During this time Mr. Davis has been chairman of the standing committees upon Repairs, and Examination of Teachers; chairman of the sub-committees upon the Wilson school, Goffe's Falls school, and Hallsville and Harvey schools. He has been also a member of the following committees: Finance, Salaries, Music, Drawing, Bakersville and Mosquito Pond schools, Franklin-street school, Evening schools, Spring-street school, and Webster-street and Stark schools. From 1905 to 1910 Mr. Davis was clerk of the school board.

Mr. John F. Lee was first elected to this board in the fall of 1902, and assumed the duties of his office in January, 1903. Mr. Lee's term of service has extended over a period of ten years, during which he has served upon the standing committees upon Attendance, Music, Fuel and Heating, and Repairs, besides being chairman of the first mentioned. Mr. Lee has been also chairman of the sub-committees upon Evening schools and the Chandler school, and a member of the Franklin-street, Lincoln-street and Youngsville, and Kindergarten sub-committees.

Mr. Frank L. Downs was first elected a member of the school board at the biennial election of 1904 and was sworn into office on the first Tuesday of the following January. Mr. Downs' term of service has extended over eight years. He has served as chairman of the committees upon Attendance, Repairs, Ash-street and Webster's Mills schools, Bakersville and Mosquito Pond schools, the High school, and Kindergartens. He has been a member of the committees upon Drawing, Text-books, Examination of Teachers, Amoskeag, Pearl-street, Merrimack-street, Rimmon, and Varney schools.

Rev. Francis X. Lyons was nominated and elected a member of the school board by the citizens of ward ten in the fall of 1906. An unusual circumstance in this connection is the fact that Mr. Lyons' name was placed by friends upon the ballot in the caucus without his knowledge, and only after many votes had been cast and the matter practically decided did knowledge of the fact reach his ears. It was a case, of rare occurrence, where the office sought the man. Mr. Lyons' term of service has covered a period of six years, during which time he has been chairman of the committees upon Music, Goffe's Falls and Highland schools, Bakersville and Mosquito Pond schools; also a member of the committees upon Examination of Teachers, Text-books, Health, Training school, Main-street school, Varney school, Parker school, Webster-street and Stark schools.

Mr. Ernest W. Wiesner and Dr. Nazaire E. Biron became members of the board in January, 1911. Mr. Wiesner has been chairman of the committees upon Drawing, Spring-street, and Straw schools, and a member of the committees upon Manual Training, Repairs, the High school, Goffe's Falls and Highland schools, Pearl-street, Rimmon, and Wilson schools. Dr. Biron has been chairman of the committees upon Health, the Rimmon school and the Main-street school. He has been a member of the committees upon Music, Fuel, Amoskeag, Ash-street and Webster's Mills, Straw, and Evening schools.

Hon. Edward C. Smith and Mr. Ernest Bournival have been *ex-officio* members of the board for a term of two years. Both gentlemen have served upon standing committees upon Finance and Fuel. Mr. Smith has been chairman of the former.

HEALTH.

The school reports for 1907, 1908 and 1909 urged medical inspection in the schools. Upon request from this body the Board of Health took the matter up, secured an appropriation for the purpose and began systematic inspection in the fall of 1910.

Data from the office of the Board of Health show that there are in this city 11,348 children with physical defects of a more or less serious nature. These include affections of the eyes, ears, nose, throat and teeth. The existence of so many children in school who are not normal and who need medical or dental treatment is no surprise to those acquainted with the results of medical inspection in other cities.

We now have positive knowledge regarding the physical condition of pupils in the schools. Knowledge that conditions are such and such is of no benefit to the community unless it causes steps to be taken to remedy the conditions. The parents of a large number of these children are so situated financially that they are unable to meet the expense of the necessary medical treatment. If the city is to receive the full benefit of the knowledge derived from the inspection of its schools it must provide the means for free treatment of certain cases.

I believe that it is possible for the city to contract with the various hospitals for the free treatment of children whose parents are not able otherwise to secure the proper medical or surgical attention and that it should be done. It is a plain duty. I recommend that this board take the proper steps to secure free medical and surgical attendance for such children as need the same.

Furthermore, as a step in this direction, to secure proper treatment and care of minor disorders, to follow up cases and to teach hygiene, I recommend that a school nurse be employed to coöperate with the medical inspectors.

TEETH.

Private philanthropy, with the asistance of the school board, is about to provide free dental treatment for some school children. A number of the dental practitioners of the city have agreed to give their services for half a day each month, provided the necessary room and equipment are furnished. The board has given the use of a room in the Spring-street school building, and generous citizens are providing the equipment. The near future will see the plan in full operation. Too much cannot be said in praise of the generosity and public spirit exhibited by practitioners and citizens.

TABLE III—January, 1912, promotion.

SCHOOLS	No. of beginners Sept. 1911	1st year	Not advanced	2d year	Not advanced	3d year	Not advanced	4th year	Not advanced	5th year	Not advanced	6th year	Not advanced	7th year	Not advanced	8th year	Not advanced	Total in half year	Total failures
Amoskeag	7	21	5	21	2	24	4	14	1	9	.....	7	.....	13	.....	7	.....	116	12
Ash-street	19	18	.....	32	1	48	4	18	2	54	8	42	2	57	4	45	.....	314	21
Bakersville	34	39	6	56	.....	51	3	46	1	43	.....	16	.....	21	.....	14	.....	286	10
Chandler	43	56	16	71	2	48	.....	50	1	46	1	36	3	.....	.....	.....	.....	307	23
Franklin-street	21	22	1	36	4	24	.....	32	7	60	4	26	.....	15	.....	25	.....	240	16
Goffe's Falls	8	8	.....	11	.....	9	.....	6	.....	11	.....	.....	.....	6	.....	8	.....	59	....
Hallsville	40	78	13	76	8	55	2	77	5	41	3	37	.....	31	3	31	.....	426	34
Highland	8	14	2	7	.....	9	.....	.....	.....	11	.....	9	.....	5	.....	7	.....	62	2
Lincoln-street	21	50	14	26	.....	41	.....	57	2	40	2	39	2	45	.....	31	.....	329	20
Main-street	51	82	21	73	12	123	9	45	3	33	.....	.....	.....	.....	.....	.....	.....	356	45
Maynard*	44	64	16	33	.....	32	3	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	148	19
Parker	40	86	22	65	3	51	.....	47	4	29	5	20	2	12	.....	14	.....	324	36
Pearl-street	25	34	4	21	.....	37	.....	30	1	.....	.....	.....	.....	.....	.....	.....	.....	122	5
Montcalm*	39	62	10	45	2	49	5	72	.....	18	.....	12	.....	23	.....	5	.....	286	17
Spring-street *	40	43	3	29	.....	20	.....	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	130	3
Straw	26	51	9	41	1	43	2	44	1	43	3	33	2	15	.....	18	.....	288	18
Varney*	49	47	3	45	2	52	1	49	3	38	4	66	9	16	.....	42	.....	355	22
Webster-street	29	41	5	35	6	36	.....	34	.....	38	.....	39	.....	28	.....	18	.....	269	11
Wilson	38	45	6	54	7	60	4	67	1	35	1	29	.....	23	.....	15	.....	328	19
Youngsville	17	18	1	30	.....	20	.....	1	.....	9	.....	10	.....	2	.....	2	.....	92	1
Harvey	.....	5	.....	3	.....	3	.....	2	.....	.....	.....	5	.....	.....	.....	.....	.....	18	....
Mosquito Pond	1	3	.....	3	.....	7	.....	.....	.....	7	.....	.....	.....	5	.....	.....	.....	25	....
Stark	4	6	1	3	.....	8	1	.....	.....	2	.....	.....	.....	2	.....	.....	.....	21	2
Webster's Mills	.....	1	.....	2	.....	1	.....	4	.....	1	.....	.....	.....	1	.....	2	.....	12	....
Totals	604	894	158	818	50	851	38	752	32	568	31	426	20	320	7	284	0	4913	336
Percentage	.....	.....	17.7	.....	6	.....	4.4	.....	4.2	.....	5 4	.....	4.6	.....	2.1	.....	0	...	6.8

* Special Classes, Maynard School	89	Not included above.
" " Montcalm	94	
" " Spring-street	44	
" " Varney	30	
	257	

TABLE IV—June, 1912, promotion.

SCHOOLS	No. of beginners January, 1912	1st year	Not advanced	2d year	Not advanced	3d year	Not advanced	4th year	Not advanced	5th year	Not advanced	6th year	Not advanced	7th year	Not advanced	8th year	Not advanced	Total, half year	Total failures
Amoskeag	1	17	.....	16	2	19	.....	14	.....	22	1	7	.....	13	.....	7	.....	115	3
Ash-street	3	23	9	15	.....	39	3	39	5	27	2	40	3	56	4	65	1	304	27
Bakersville	5	35	9	45	15	44	9	39	3	39	3	20	1	39	3	15	.....	276	43
Chandler	.....	44	13	36	2	62	6	45	5	48	4	56	2	.....	.....	.....	.....	291	32
Franklin-street	7	28	7	27	3	28	1	34	1	29	.....	36	.....	24	.....	24	2	230	14
Goffe's Falls	.....	9	2	7	.....	12	.....	5	.....	4	.....	8	.....	.....	.....	15	.....	60	2
Hallsville	15	77	23	42	4	79	3	60	10	51	6	28	....	33	3	44	.....	414	49
Highland	2	6	2	6	.....	7	.....	9	.....	.....	.....	10	3	11	1	6	.....	55	6
Lincoln-street	4	43	11	30	2	38	9	39	4	39	4	39	1	42	.....	45	.....	315	31
Main-street	.....	68	10	77	10	103	21	64	6	33	5	18	.....	.....	.....	.....	.....	363	52
Maynard*	10	50	12	18	2	34	3	36	5	.....	.....	.....	.....	.....	.....	.....	.....	138	22
Parker	.....	53	13	64	13	58	9	31	5	45	7	22	4	20	4	14	.....	307	55
Pearl-street	.....	23	4	22	1	28	2	31	.....	17	.....	.....	.....	.....	.....	.....	.....	121	7
Montcalm*	6	39	10	45	3	48	4	54	8	29	1	14	.....	9	.....	14	.....	252	26
Spring-street*	10	42	.....	20	3	19	1	33	12	10	.....	.....	.....	.....	.....	.....	.....	124	16
Straw	.....	23	1	42	2	32	1	47	5	42	10	33	1	26	3	19	.....	264	23
Varney*	8	48	.....	46	.....	52	7	52	.....	47	4	25	2	54	7	41	.....	365	20
Webster-street	7	38	6	37	2	29	2	31	.....	44	.....	42	.....	22	.....	26	.....	269	10
Wilson	11	51	5	45	8	52	1	59	2	40	1	31	.....	32	.....	16	.....	326	17
Youngsville	.....	15	1	13	.....	38	.....	3	.....	10	1	11	.....	2	.....	2	.....	94	2
Harvey	1	3	.....	3	.....	3	.....	.....	.....	3	.....	4	.....	.....	.....	.....	.....	16	.....
Mosquito Pond	.....	4	.....	.....	.....	10	.....	.....	.....	7	.....	.....	.....	4	.....	.....	.....	25	.....
Stark	.....	6	1	6	.....	5	.....	2	.....	2	.....	2	.....	1	.....	.....	.....	24	1
Webster's Mills	.....	2	.....	4	.....	.....	.....	1	.....	2	.....	2	.....	.....	.....	1	.....	12	.....
Total	90	747	139	666	72	839	82	728	71	590	49	448	17	388	25	354	3	4760	458
Percentage	.....	.....	18.6	.....	10.8	.....	9.7	.....	9.7	.....	8.3	.....	3.7	.....	6.4	.....	.8+	.....	9.4

* Special Classes,	Maynard	69
" "	Montcalm	70
" "	Spring-street	39
" "	Varney	28
		206

Not included above.

PROGRESS THROUGH THE GRADES.

Two tables are given which show the number of pupils in each year of school and the number who failed to advance with their classes at the semi-annual promotions in January and June. Similar tables have been published in the three preceding reports.

At the close of the first semester 336 pupils out of a total of 4,913 failed to advance; at the close of the second semester 458 out of a total of 4,760 failed to advance. The aggregate for the year was 794, or 8.2 per cent. The percentage for 1911 was 7.37. There was then an increase of .8 of one per cent. This increase may be accounted for as follows: The membership of the schools was 537 greater than for 1911. This increase in pupils was distributed among all the grades and did not occur chiefly or in large part in the first grade, the numbers in grades one and two for the year being actually less than for 1911, but the increase did occur chiefly in grades three, four and five, where 70 per cent of it may be accounted for. These pupils were classified as carefully as possible. Many of them were over age. The age table of December 5, 1911, shows practically 48 per cent over age in grade three, 55 per cent in grade four and 61 per cent in grade five. These pupils lacked the training received by others who had progressed regularly in the schools, and a larger number failed to advance. The increase is slight. It is to be expected that their assimilation to the schools has been accomplished and that no further increase will occur through their entry.

The promotion tables for the four years show that failures are most numerous in grade one, and in the first half of that year, that they are fewest in grade eight, that the failures in the second year uniformly exceed those of the third, that there is slight difference between those in the third and in the fourth grade, also slight difference between the fourth and fifth, that the failures in grade five exceed those in grade six, those in grade six exceed those in grade seven.

Reports have been received from the schools stating the reason or reasons for the non-promotion of each pupil. These are the same as in former years, absence and illness, and immaturity and slow development counting for nearly half of the total.

A very pertinent query may be made in regard to this matter, namely, to what extent is inefficient teaching responsible for failure? An inefficient teacher fails in the work of instruction, fails to stimulate and direct the mental activity of the child along the lines of the school work. The fact that he fails is prima facie evidence of lack of discrimination, proof that he does not read the signs of mental activity aright, and conduct himself accordingly. The same lack of discriminative power is displayed at the time of promotion and such a teacher does not of necessity hold back pupils. On the contrary, he promotes them when they are unprepared. The failures occur

when the poorly prepared pupils meet the discriminating teacher who with great stress and strain proceeds to establish habits quite different from those already begun. Were it to appear that the pupils of one grade were advanced habitually with few or no failures and that a large number failed habitually with a succeeding teacher, it would raise a question as to the efficiency in the former grade. I have found up to the present time no such set of circumstances.

The fact that there are few failures in a school is not of necessity an indication of efficiency. With discriminating instructors it is such an indication. Retardation is due in large measure to physical defects, to what extent is not now known. I believe that the reasons assigned for failure to progress are in the main right and given with good judgment.

VOCATIONAL SCHOOL.

The city council, the school board and all who are acquainted with the conditions at the manual training school acknowledge the need of a new building. The necessity for additional high school accommodations is well known. The school report for 1909 discussed at some length this latter situation and, in view of the facts at that time, recommended the enlargement of the present high school building. Such a course would have provided for the high school alone. Strong opposition to such a plan was aroused. In view of the present situation, the still crowded state of the high school, the need for additional manual training room, the necessity for vocational training and practical arts courses, all of which can be provided by the erection of a single structure, the board requested of the city council an appropriation of $100,000 for the purpose of erecting, upon the site of the present manual training school and the adjacent lot, a single building which should be a combined technical, vocational and manual training school. The former proposed addition or additions to the high school would not have had the capacity to provide for all of these needs. It was planned to place the commercial students at present in the high school in the new building, thus relieving the present structure and making of it a purely classical institution, in which capacity it would meet the needs of the city for a long time. The proposed plan has several advantages, first, that of relieving the present high school; second, of providing for the city educational facilities in a line of work in which we are sadly deficient; third, relief of the manual training school; and fourth, it can be done at a much smaller cost than that of the proposed wings at the high school. (These are estimated at $90,000 apiece.) Furthermore, it will provide for a larger number of pupils.

A joint committee of the council composed of the members of the sub-committees on public buildings and schools reported to that body, acknowledging the need of the additional building and recommending that the board secure an option on the adjoining property, have plans and specifications prepared, and secure bids in order to ascer-

tain as nearly as possible the actual cost of such a structure. The matter rests at this point.

The proposed building should provide accommodations approximately as follows:

First,—For 300 commercial students, with capacity for expansion to twice that number.

Second,—For 200 technical students with opportunity for expansion to twice that number. This includes drawing rooms, physical and chemical laboratories as well as rooms for wood and metal working machinery, benches, etc.

Third,—For 550 boys and 600 girls in manual training and domestic science courses, with opportunity to double the number. This means accommodations for 225 daily, with a future capacity of 400 daily.

Recitation rooms for English, mathematics, science and modern language should be provided, as well as the customary accessories for modern school buildings.

I recommend that this board request of the council a small appropriation for the purpose of securing the plans and estimates above mentioned.

MANUAL TRAINING SCHOOL.

In view of the fact that the work of the school was impeded by excessively large classes during the year, it was deemed wise to limit the attendance at the school to such a number as could be handled properly. Accordingly the boys of but three classes were admitted to the school at the opening of the fall term. In February, under ordinary conditions another grade of boys would be admitted. If they should be admitted, the former condition of crowded classes will result. The wise course will restrict the membership for the year to the present three classes.

There have been added to the equipment a Colburn's saw table and an Oliver lathe, both motor driven. The work of the school has been slightly modified. Drawing tables have been manufactured and card filing cabinets for the various buildings are being made.

HIGH SCHOOL.

Reference to the crowded condition of the school has already been made. The enrollment for the past has been 703. The present membership is 687, in classes as follows:

First class, 139; Second class, 158; Third class, 176; Fourth class, 200; post graduates, 14.

Sixteen pupils have left school during the term. Twenty-five teachers are employed. The number of pupils in science and the commercial subjects is such that an additional teacher is needed for each department.

The board has at times purchased some reference books for the school, but all of the departments have not been favored equally.

There should be supplied ample reference books for all departments. The commercial course is supposed to give a thorough business training. This is impossible without modern office devices. The needs of the department should be met in this respect. I believe that the school is doing good scholastic work.

The various activities of the pupils, social and athletic, have been very prominent in the life of the institution and have raised the question as to whether or not they are passing legitimate bounds and infringing upon the efficacy of the school. Believing this to be the case the board has limited the social functions to six for the present school year.

Statements have been made in previous reports about the changing ideal in regard to the function of the high school and its duty to the community. It has been said that the course has been determined largely in the past by the college entrance requirements, that not over twenty-five per cent of the graduates pursue courses in normal schools and higher institutions, and that this fact, that the school is of direct utility for this minority and not to the same degree for the majority, is an injustice. The statements are reiterated and present the strongest argument possible for the technical, vocational, and practical arts building to which reference has before been made.

The Massachusetts State Board of Education is holding conferences throughout the state of Massachusetts for the purpose of improving high school courses, saying, "That it is the general belief that the course should be revised,—

"To give certain elements of education not now included in the high school course, but needed by all boys and girls, including those who are going to college.

"To keep in school a larger proportion of those who enter.

"To attract many who do not now enter.

"To direct the attention of boys and girls to those vocations for which they are adapted and in which they are needed."

The schools of Gary, Indiana, are accomplishing these results, and not only accomplishing them but making money in so doing. The three departments of printing, cabinet work and painting had to their credit a profit of $875.48 for the year. The Commissioner of Education reports that in the cabinet department the product was valued at $3,608.85; the expense was $3,155.37. The painting department showed a business of $1,591.25 and an expense of $1,344.73. A vocational school will render such results possible.

The usual table is appended showing the movement of pupils through the schools.

TABLE VII.

MOVEMENT OF PUPILS THROUGH HIGH SCHOOL.

SUBJECTS.	Number passed.	Number failed.
English I	187	28
" II	179	7
" III	142	8
" IV	114	1
Latin I	112	20
" II	72	12
" III	32	2
" IV	20	1
Greek I	18	2
" II	10	.....
" III	4	.....
French I	102	32
" II	128	6
" III	26	.....
German I	44	6
" II	14	.....
" III	9	.....
Algebra I	147	11
" II	165	22
" III	34	4
Geometry I	147	11
" II	165	22
" Rev. III	38	.....
" Solid	30	1
Trigonometry	30	.....
Advanced and Commercial Arithmetic	73	.....
Physics	18	3
Chemistry	44	12
Botany	32	11
Zoology	21	.....
Ancient History	134	13
English History	75	.....
Mediaeval and Modern History	28	1
United States History	115	2
Bookkeeping, I	47	2
" II	29	.....
Commercial Industrial History	28	1
Commercial Geography	51	7
Stenography, I	83	2
" II	.....	.....
Typewriting	.....	.....
Mineralogy, Geology and Phys. Geography	22	4
	.....	.....

CHILD LABOR LAW.

The report of the State Superintendent of Public Instruction states that particularly in Manchester have the truant officers been systematic, diligent and effective, and it commends especially the vigilance of Mr. Davis of Manchester among a few mentioned by name. This reference is in regard to the enforcement of the truancy and child labor laws.

The work of granting employment certificates has become well systematized, and employers of child labor are becoming familiar

with its modus operandi. The law in the main has received the approval of the citizens. Every certificate issued states the nature of the industry in which a child may be employed. This is indicated by the medical inspector in the health certificate given to the applicant after a thorough examination. Inspectors have been particularly discriminating in this matter, to the great credit of the city with the state department. I am informed that vacation certificates find particular favor with employers, who are thereby fully protected. Each certificate is stamped with the date of its expiration.

As is well known, children between the ages of twelve and fourteen years may be employed in vacation time only. The proposition to make fourteen years the age of legal employment for vacation does not seem wise at the present time under present conditions. Experience has shown that more juvenile crime is met with in vacations and on the part of children between the ages of twelve and fourteen years than at any other time of the year. It is a fact that more boys and girls receive their first impetus to wrongdoing and are started on the wrong road between those ages than at any other time. When civic agencies shall have provided facilities for the normal activities of children, by means of playgrounds, by vacation schools, or in whatever other manner may be devised, the age limit may profitably be raised. These agencies are not now in operation.

Experience shows that the licensing and control of places of amusement, so far as the attendance of children under fourteen years of age is concerned, might well be under the control of the police department.

IN GENERAL.

The board has under advisement at the present time a proposition to open a fresh air school. Preferably this should be for tubercular children, but open air schools are not conducted for tubercular children alone. It is perfectly feasible and just as advisable to conduct such a school for well children. In the case of tubercular children, inasmuch as some must attend from a considerable distance, it will be necessary to provide transportation. The cost of this and of food will be the only unusual expense.

Writing in the public schools has been under expert supervision for one year. Improvement is noticeable, the work has become well systematized, the teachers have been instructed and should now be able to carry on the work alone.

The maximum salary of grade teachers has been advanced from $600 to $650 per annum. This is just recognition of the labors and efforts of a body of most devoted public servants. Twice within six years have the salaries of the grade teachers been raised. For more than twelve years no general increase has been granted to the high school teachers. I urge upon you the justice and propriety of increasing the annual salaries of high school teachers.

It is fitting and proper that the school board should interest itself and lend its influence to forward all movements for civic betterment, especially where children are concerned. In line with this the board has granted the use of school buildings to the patrols of boy scouts and to parent-teacher associations. It should advocate the establishment of playgrounds in different sections of the city, playgrounds adequately equipped and properly officered. If the chief business of the state is the proper rearing of its future citizens, it should utilize every agency which will render those citizens sound physically and morally. The playground does quite as much to make them sound morally as it does physically. Environment influences character strongly. The playground environment is good; it tends towards the production of good character. I can conceive of nothing which will be of more benefit to the whole city than ample play space for its children.

In conclusion, I desire to express that appreciation which is due to teachers, school officials and citizens for the successful conduct of school affairs.

Respectfully submitted,

CHARLES W. BICKFORD,

Superintendent.

APPENDIX.

I. Population, Etc.
II. Schoolhouses.
III. Schools.
IV. Teachers.
V. Attendance Tables.
VI. Truancy.
VII. Finance.
VIII. High School Graduates.
IX. Winners of Clarke Prizes.
X. Organization of Committees, 1913.
XI. List of Teachers, 1913.
XII. School Year, 1912–13.

APPENDIX.

STATISTICS.

I. Population.

Population of the city by last census, 1910	70,063

Legal school age, 5 to 21.

II. Schoolhouses.

Number of schoolhouses in use	25
Number of schoolhouses not in use	0
Number of schoolrooms used for day schools	161
Number of rooms used for high school	20
Number of rooms used for graded schools	130
Number of rooms used for ungraded schools	4
Number of rooms used for Manual Training school	3
Number of rooms used for kindergartens	4

III. Schools.

(All for both sexes.)

Number of high school buildings	1
Number of full graded schools	17
Number of lower graded schools	3
Number of ungraded schools	4
Number of manual training schools (for boys)	1

IV. Teachers.

Male teachers in the high school	7
Female teachers in the high school	16
Male teachers in the grades	7
Female teachers in the grades	139
Female teachers in the ungraded schools	4
Female teachers in the kindergarten	8

Male teachers in the Manual Training school	4
Special teachers, male	3
Special teachers, female	2
Total number of teachers in day schools	190
Male teachers in the evening schools	18
Female teachers in the evening schools	16
Male teachers in the evening drawing schools	2

V.—TABLE SHOWING THE ATTENDANCE UPON THE VARIOUS DAY SCHOOLS FOR THE YEAR 1911–1912.

SCHOOLS.	Whole number belonging.*		Average membership.	Average daily attendance.	Percent of daily attendance.	TEACHERS.
	Boys.	Girls.				
High School	329	365	646	622	96.2	George H. Libby, Master G. I. Hopkins, Submaster Harry N. McLaren Charles F. Bates Norris D. Blake Allan E. Herrick Fred H. Hodgson Arthur O. Friel Mary J. Wellington Mary H. Dowd Elsie D. Fairbanks Annie M. Vose Edith M. Pierce Bertha A. Blanchet Helen I. Buck Cora J. Russell Anne G. Towle Bertha V. Healey Florence E. King Mildred Fritz Helen Furness Madge Tasker Mabel Parsons Nellie K. Jones, 2 terms } Assistants
GRADES.						
Amoskeag, 8A, 7A, 6A	14	15	28	27	97.1	Blanche L. Bachelder, Principal
" 5A, B, 4A	16	23	37	35	96.0	Edna L. Merrill
" 3A, B, 2A	16	22	29	27	92.3	Anna C. O'Donoghue Edna Blood, substitute 2 terms } Assistants
" 2A, 1A, B	9	15	22	19	87 0	Mildred G. Morey
Amoskeag Totals	55	75	116	108	93.1	

Ash-street, 8A	26	21	44	42	96.0	Edgar D. Cass, Master. Amelia L. Graupner.	
" 8B, 7A	19	19	39	37	94.8	Emma L. McLaren.	Assistants.
" 7A, B	15	27	40	38	93.7	Belle R. Daniels.	
" 6A, B	20	27	42	39	92.8	Emma J. Cooper. Frances Farrell, substitute 1 term.	
" 5A, 4A	34	17	47	43	91.8	Mary E. Bulman.	
" 4A, 3B	24	27	45	42	93.0	Alice E. Good.	
" 3B, 2A	32	17	32	31	95.5	May F. Nutt.	
" 1A, B	10	20	21	19	91.0	Hulda C. Graupner.	
Ash-street Totals	180	175	310	291	93.9		
Bakersville, 8A, 7A, B	17	22	35	34	98.1	Elizabeth A. Burns, Principal. Lelia A. Brooks.	
" 7B, 6B	22	27	41	40	96.7	Jennie F. McGrath.	Assistants.
" 5A, B	24	22	41	39	95.5	Mary L. Heath, 2 terms. Kathryn D. McKeon, 1 term.	
" 4A, B	25	20	41	38	92.9	Florence M. Jarvis, substitute.	
" 3A, B	28	24	44	41	93.5	Augusta S. Downs.	
" 2A	18	21	35	32	90.4	Bessie J. Bartlett.	
" 2B, 1A, B	30	27	42	38	89.1	Katharyn D. McKeon, 2 terms. Frances Murphy, substitute 1 term.	
Bakersville Totals	164	163	279	262	93.5		
Chandler, 6A	14	20	33	32	97.3	Alice C. Taggart, Principal.	
" 6B, 5A	31	20	46	44	94.1	Hattie S. Tuttle.	Assistants.
" 5B, 4A	15	33	47	45	95.5	Ede B. Shand.	
" 4B, 3A	30	20	47	45	96.0	Amy K. Northrup.	
" 3B	26	15	37	34	92.4	Delia B. Clarke.	
" 2A, B	24	15	36	33	92.8	Jennie R. McLaughlin.	
" 1A, B	33	24	45	41	90.6	Helen N. Bly.	
Chandler Totals	173	147	291	274	94.2		
Franklin-street, 8A, 7A	20	23	39	37	94.0	Isaac Huse, Master. Frances E. Barndollar.	
" 7B, 6A	11	17	27	26	96.1	Helen F. Lyons.	Assistants.
" 6B, 5A	16	16	30	26	87.8	Daisy Flanders.	
" 5A, B	13	23	30	28	94.4	Hattie E. Read.	
" 4A, B	27	16	37	33	88.9	Grace M. Whittemore.	
" 3A, B	19	20	26	24	91.0	Gwendolyn A. Woodbury.	
" 2A, B	28	16	31	29	92.0	Mae E. Hills.	
" 1A, B	22	20	29	26	88.7	Ida L. Montgomery.	
Franklin-street Totals	156	151	249	229	91.9		

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS.—*Continued.*

SCHOOLS.	Whole number belonging.*		Average membership.	Average daily attendance.	Percent of daily attendance.	TEACHERS.
	Boys.	Girls.				
Goffe's Falls, 8A, B, 6B	13	11	21	20	96.0	Caroline E. Head, Principal.
" 5A, 4A, 3A	10	15	19	18	95.4	Edith A. Murphy. } Assistants.
" 3B, 2A, 1A, B	12	13	19	17	91.2	Anna B. McDonald. } Assistants.
Goffe's Falls Totals	35	39	59	55	93.2	
Hallsville, 8A, B	13	18	38	36	94.5	William H. Huse, Master. Millicent S. Morse.
" 7A, B	14	25	35	32	91.1	Olive A. Rowe. } Assistants.
" 6A, B	13	28	34	31	92.0	Mary L. Mooar. } Assistants.
" 5A, B	22	21	39	35	89.3	Marjory H. McDougall. } Assistants.
" 5A, 4A	19	15	34	31	90.9	Mildred H. Eager, substitute. } Assistants.
" 4A, B	23	26	41	38	91.5	Ina E. Tuttle. } Assistants.
" 3A	29	15	36	32	87.3	Marion L. Smith. } Assistants.
" 3B, 2A	22	15	41	36	88.7	Martha J. Kennedy. } Assistants.
" 2A, B	25	19	43	38	89.6	Vivian Mathews. } Assistants.
" 1A	24	26	41	37	89.9	Alice B. Morrill. } Assistants.
" 1A, B	28	33	38	32	83.8	Annie R. Corson. } Assistants.
Hallsville Totals	232	241	420	378	90.0	
Highland, 8A, 7A, B	15	7	20	19	96.9	Annabel D. Wyman, Principal.
" 6B, 5A, 4B	12	9	20	19	96.3	Mildred W. Simons. } Assistants.
" 3B, 2B, 1A, B	13	6	19	18	96.5	Mary E. Walker. } Assistants.
Highland Totals	40	22	59	56	94 9	

Lincoln-street, 8A, B	24	25	45	43	95.2	A. H. M. Curtis, Master. Gertrude Adams.	
" 7A, B	27	27	46	44	96.0	Josephine E. Paige.	Assistants.
" 6A, B	27	27	44	41	93.6	Lillian F. Crowther.	
" 5A, B	26	21	40	36	89.6	Lois D. Beck. Ethelyn M. Stearns, substitute.	
" 4A, B	19	22	39	36	92.1	J. Elizabeth Cate.	
" 3A, B	18	20	39	37	94.3	Katherine A. Frain.	
" 2A, B	13	15	30	28	93.5	Theodora Richardson.	
" 2A, 1A, B	18	22	34	31	91.1	Nettie S. Rennie.	
Lincoln-street Totals	172	179	317	296	93.4		
Main-street, 6B, 5A	16	22	32	31	96.0	Mary W. Mitchell, Principal.	
" 5B, 4A	31	19	43	42	96.1	Hattie O. Willand.	Assistants.
" 4B, 3A	22	38	50	47	94.0	M. Minnie Sturtevant.	
" 4B, 3A	31	21	50	47	94.7	Elizabeth F. Walsh	
" 3A, B	32	24	47	44	93.4	Kate T. Clarke.	
" 2A	21	28	43	38	89.0	Mary H. O'Dowd.	
" 2A, 1A	25	30	47	42	89.7	Myrtle B. Slager.	
" 1A, B	29	25	49	46	93.0	Clara V. Clement.	
Main-street Totals	207	207	361	337	93.4		
Maynard, 4A, B	48	15	55	47	85.3	Nellie F. Dunnington, Principal.	
" 3A, 2A	24	10	36	33	92.0	Ella M. Chapman.	Assistants.
" 2A, B, 1A	17	21	30	27	88.1	Mary A. Brennan.	
" 1A, B	28	51	47	36	76.4	Hazel R. Porter.	
" Non-English	43	63	59	53	88.0	Florence Prescott Bessie R. H. Caine.	
Maynard Totals	160	160	227	196	86.3		
Parker, 8A, 7A, B	16	23	35	34	97.5	Mary E. Moulton, Principal. Mary L. Ayer.	
" 6A, B, 5A	22	20	40	39	89.9	Mary L. Ayer, 1 term. Frances Landers, 2 terms.	Assistants.
" 5B, 4A	18	33	45	43	95.1	Ethel Bartlett.	
" 4B, 3A	24	30	48	46	95.6	Gertrude Mitchell.	
" 3B, 2A	28	21	46	43	93.2	Eda M. Barr.	
" 2A, B, 1A	18	31	49	44	90.4	Lorna E. Morrison.	
" 1A, B	27	28	48	44	90.8	Maude E. Winegar.	
Parker Totals	153	186	311	293	94.2		

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS—*Continued.*

SCHOOLS.	Whole number belonging.*		Average membership.	Average daily attendance.	Percent of daily attendance.	TEACHERS.
	Boys.	Girls.				
Pearl-street, 5B, 4A	16	14	30	29	97.7	Mary G. Tynan, Principal.
" 4B, 3A	22	17	37	36	95.2	Nellie M. Smith. } Assistants.
" 3B, 2A, B	15	8	27	25	93.5	Florence Abbott. } Assistants.
" 1A, B	18	20	28	26	93.2	Alice E. Walsh. } Assistants.
Pearl-street Totals	71	59	122	116	95.1	
Rimmon, 8A, B, 7A	20	16	28	26	93.4	Harrison N. Bowen, Master.
" 6A, B, 5A	14	22	30	28	90.4	Blanche Hicken. } Assistants.
" 5B, 4A	27	28	43	38	87.2	Irene M. Moore, substitute. } Assistants.
" 4A, B, 3A	27	27	43	37	85.5	Alice M. Pepin. } Assistants.
" 3A, B, 2A	28	29	48	44	92.4	Louise M. Bryson. } Assistants.
" 2A, B	31	26	41	37	89.7	Mary S. White. } Assistants.
" 1A, B	27	32	36	31	87.0	Sarah Hodgman. } Assistants.
Rimmon Totals	174	180	269	241	89.6	
Montcalm Hall, 4A, B	40	19	34	31	60.3	Susie A. Huff.
" Non-English	36	24	33	28	84.5	Laura McKenna.
" Non-English	13	5	30	21	69.6	Helen R. White, substitute.
Montcalm Totals	89	48	97	80	82.5	
Spring-street, 5B, 4A	38	33	40	38	93.6	Annabel Emerson, Principal.
" 4B, 3A	21	17	21	20	93.7	Lou Kean. } Assistants.
" 3B, 2A	37	23	31	28	89.9	Sadie B. Davis. } Assistants.
" 1A, B	32	33	45	41	91.6	Sarah B. Dunbar } Assistants.
" Non-English	39	40	41	36	87.3	Agnes Montgomery, substitute. } Assistants.
Spring-street Totals	167	146	178	163	91.5	

Straw, 8A, 7A	20	18	35	34	96.4	Alta C. Willand, Principal. Marjorie S. Woodbury.
" 7B, 6A	23	14	31	30	95.7	Elizabeth McKelvie.
" 6B, 5A	22	24	42	40	94.6	M. Eunice Willand.
" 5B, 4A	24	35	45	42	93.3	Laura M. Gould.
" 4B, 3A	33	19	45	41	91.3	Lauretta B. Sawtelle. Assistants.
" 3B, 2A	25	24	39	37	94.6	Florence H. Moore.
" 2B, 1A, B	27	25	44	41	94.0	Edith M. Stebbins.
Straw Totals	174	159	281	265	94.3	
Varney, 8A	23	20	41	40	98.3	George Winch, Master. Jennie V. Williamson.
" 7A, B	30	26	48	47	97.1	E. Maria Dickey.
" 7B, 6A, B	26	28	44	42	94.4	Helen M. Bullard
" 5A, B	18	26	44	41	92.4	Bertha L. Marden.
" 4A, B	30	24	50	47	94.0	Mary E. Trinity.
" 3A, B	30	22	50	46	92.2	Jennie M. Landers. Assistants.
" 2A, B	29	26	48	46	94.6	Laurette McKendree.
" 1A, B	34	37	49	45	91.1	Annie E. Walsh.
" Non-English	25	22	26	22	84.7	Hazel M. Garmon, substitute.
Varney Totals	245	231	400	376	94.0	
Webster-street, 8A, B	18	13	27	26	95.3	John Gault, Master. A. Maude Lamprey.
" 7A, 6A	14	18	30	28	94.2	Lillian Whitney.
" 6A, B	16	22	36	33	92.0	Jennie Russell.
" 5A, B	24	23	45	42	92.9	Eva F. Tuson.
" 4A, B	9	24	32	30	94.9	Jean Gillan. Assistants.
" 3A, B	17	17	30	28	94.1	Marcia Moore.
" 2A, B	21	14	33	30	91.1	Agnes M. Woodbury.
" 1A, B	26	16	35	31	87.8	Sarah M. McKelvie.
Webster-street Totals	145	147	268	248	92.5	
Wilson, 8A, 7A	26	18	39	38	96.8	Barbara B. Joy, Principal. Blanche L. Bryant.
" 7B, 6A	16	19	29	28	97.8	Helen Haskell.
" 6A, 5B	19	22	35	33	93.8	Harriet H. Richardson.
" 5B, 4A	30	19	39	36	91.0	Florence Richardson. Mary Thayer, substitute 1 term. Frances Farrell, substitute 1 term.
" 4A, B	25	27	43	40	92.5	Elizabeth H. Callaghan.
" 3A	21	27	41	36	88.5	Bertha V. Franks. Assistants.
" 3B, 2A	25	23	40	37	91.7	Florence L. Abbott.
" 2B, 1A	20	15	29	27	93.7	Marjorie Drew.
" 1A, B	27	31	37	33	87.6	Avis Armstrong.
Wilson Totals	209	201	332	308	92.7	

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS—*Concluded.*

SCHOOLS	Whole Number Belonging*		Average membership	Average daily attendance	Percent of daily attendance	TEACHERS
	Boys	Girls				
Youngsville, 8A, 7A, 6A, 5A, 4A	31	23	42	36	85.0	Mary E. Stevens.
" 3B, 2A, 1A, B	21	28	46	40	88.0	Blanche L. Corning.
Youngsville Totals	52	51	88	76	86.4	
SUBURBAN SCHOOLS.						
Harvey District	8	16	19	15	80.2	Emma J. Ela.
Mosquito Pond	14	14	26	22	86.6	Marion F. Partridge.
Stark District	17	11	22	20	90.7	Nellie K. Bates, substitute.
Webster's Mills	9	8	11	9	83.9	Phoebe Riley.
Suburban Schools Totals	48	49	78	66	87.2	
KINDERGARTENS						
Chandler	20	30	35	31	89.8	Mabel R. Carrier. Eugenia Morey.
Parker	28	21	33	27	83.0	Marion Ryan. Maude Avery.
Spring-street	36	32	39	36	92.0	Grace M. Carr. Edith M. Sturtevant.
Straw	30	31	45	39	87.7	Jennette M. Bartlett Watson, substitute. Elsie M. Dustin.
Kindergarten totals	114	114	152	133	87.5	
Aggregate totals for 1912	3,544	3,495	5,910	5,469	92.5	
Aggregate totals for 1911	3,189	3,114	5,383	4,946	91.8	

* Exclusive of duplicate enrollment, no account being made of pupils received by promotion or transfer from other city schools.

EVENING SCHOOLS.

Summary of attendance upon the several grades of public evening schools for the year 1911–1912.

SCHOOLS.	Whole number of different pupils.		Average membership.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
Franklin-street	.....	93	56	53	93.9
Lincoln-street	149	20	57	46	82.3
Rimmon	94	77	128	104	83.3
Spring-street	486	.....	233	151	81
Drawing schools { Mechanical.. / Architectural }	48	.....	31	26	86.5
Totals, 1912	777	190	505	380	75.2
Totals, 1911	477	161	528	398	75.3

Evening School Teachers.

Honorie J. Crough, principal of Franklin-street school for girls.

Assistants.—Margaret G. Linen, Genieve B. Wilson, Carlena A. Savory, Nora Sullivan.

Ferdinand Farley, principal of Lincoln-street school, for both sexes.

Assistants.—Katherine McDonald, Thomas A. McCabe, Jessie P. Stevens, William McCarthy.

Carroll S. King, principal of Rimmon school, for both sexes.

Assistants.—Frank J. Kearns, Edwin M. Rogers, Gertrude Cronin, Adelia Murphy, John Donnelly, Sarah Lyons, Frances Abbott, Elizabeth B. Murphy, James Mahoney.

Arthur B. Morrill, principal of Spring-street school for boys.

Assistants.—Minnie Sullivan, Mary D. F. Young, Myra V. Moore, Emma Manter, Lawrence O'Connor, Jos. F. Doyle, H. C. Caine, Arthur Blaine, J. J. Sullivan, H. E. Pillsbury, Frank O. Hale, William Hayes, E. B. Willand.

Evening Drawing School Teachers.

John M. Kendall and Henry W. Allen.

GENERAL SUMMARY.

The following table presents the main features of interest pertaining to the attendance upon the public schools for the last thirteen years; a similar table may be found in the report for 1896.

YEARS.	Average number of schools.	Average number of teachers employed.*	Enrolled in public day schools.	Average membership.	Average daily attendance.	Percentage of daily attendance.	Average attendance evening schools.	Graduated from grammar schools.†	Passed grammar schools for high school.†	Entered high school.‡	Graduated from high school.	Average number belonging to high school.
1900	126	135	5,462	4,388	3,998	91.8	179	225	214	152	72	380
1901	127	137	5,808	4,552	4,127	90 5	191	189	179	137	69	379
1902	129	142	6,123	4,876	4,480	91.9	250	221	211	159	62	390
1903	130	146	6,013	4,774	4,338	90.8	196	203	183	137	65	405
1904	133	149	5,920	4,889	4,483	91.7	197	237	214	169	80	401
1905	133	150	5,841	4,817	4,412	91.6	252	247	226	168	63	423
1906	135	152	5,703	4,907	4,531	92.3	246	261	220	161	78	455
1907	139	158	5,974	4,995	4,589	91.9	305	255	226	180	78	483
1908	141	162	5,944	5,163	4,795	92.9	315	255	236	173	103	529
1909	146	166	6,391	5,337	4,936	92.5	308	286	264	198	107	544
1910	154	174	6,521	5,541	5,100	92.0	413	280	247	220	107	589
1911	156	177	6,303	5,383	4,946	91.8	398	266	251	217	124	619
1912	161	190	7,039	5,910	5,469	92.5	505	291	264	197	108	646

* Including special teachers, principals, assistants, etc.

† And the A class in suburban schools.

‡ From grammar schools, parochial schools, and surrounding towns. (171 from grammar schools.)

VI. Work of Truant Officer.

DATE.	Absentees reported.	No. voluntarily returned.	No. reported caused to attend.	No. moved out of city.	No. found sick and unable to attend.	No. otherwise unavoidably detained.	No. not found.
1911.							
September	122	21	62	10	17	9	3
October	107	7	80	5	4	11	.....
November	109	10	73	4	12	10	.....
December	79	1	64	1	8	5	.....
1912.							
January	131	8	75	11	6	28	3
February	101	70	4	5	11	9	2
March	86	4	54	6	16	5	1
April	87	2	60	4	5	10	6
May	105	2	69	6	4	24	.....
June	73	7	6	.....	4	2	.....
Totals	1,000	132	601	52	87	113	15

VI. Work of Truant Officer.—*Concluded.*

DATE.	Children first enrolled in school during the year as direct result of officer's work	No. of transfers investigated.	No. of school age interviewed upon the streets in school hours.	No. of families visited.	No. of notices served.	No. of school age temporarily confined at the police station.	No. brought before the court.	No. sent to reformatory schools.	No. of employment certificates issued and transferred.
1911.									
September	14	18	215	179	1	.....	.....	.....	932-305
October	23	129	217	173	....	.....	1	1	66- 59
November	29	58	215	525	....	.....	.....	.....	79- 60
December	1	25	170	103	....	.....	.....	.....	59- 54
1912.									
January	7	40	170	240	4	.....	.....	.....	79- 75
February	7	45	175	150	....	.....	.....	.....	73- 72
March	.....	25	176	149	2	2	2	2*	97- 87
April	2	27	250	125	....	.....	.....	.....	87- 75
May	10	13	250	217	3	3	.....	.....	115- 93
June	3	.....	175	115	1	.....	.....	.....	316- 67
Totals	96	380	2,013	1,976	11	5	3	3	1,913-947

* Sentence suspended.

FINANCES, 1912

Items of Account.	Appropriations.	Expenditures.
Books and stationery	$50.00	$36.47
Care of rooms	14,000.00	13,659.31
Contingent expenses	5,000.00	5,485.40
Evening schools (common)	3,000.00	2 682.65
Evening Schools (drawing)	300.00	289.19
Free text-books and apparatus	10,000.00	11 163.77
Fuel	13,000.00	12,737.31
Furniture and supplies	2,500.00	2,140.91
Manual training	750.00	557.53
Printing and advertising	500.00	708.40
Care of school clocks	350.00	254.20
Teachers' salaries	137,000.00	129,250.58
Pianos (Kindergarten)	500.00	500.00
New schoolhouses (balance from 1911 and trans.)	38,168.44	38,168.44
Manual training equipment	500.00	564.81
Cost of city schools	$225,618.44	$218,198.97

COST OF CITY SCHOOLS.

Salaries.

Cost of city schools		$218,198.97
Members of school board		275.00
Clerk of board		150.00
Superintendent of schools		2,650.00
Truant officers		2,100.00
		$223,373.97

Receipts.

Literary fund	$4,550.56	
Tuition and free text-books*	2,430.58	
		$6,981.14
Net amount raised by taxation and from sale of bonds		$216,394.83
Received from sale of bonds		37,244.13
Net amount raised by taxation		$179,150.70

*School tax from Londonderry, Bedford, Goffstown, Auburn, and Hooksett, included.

The city valuation for 1912 is $67,059,337, and hence the rate of taxation for the year is $179,150.70, divided by the valuation, or .0026+. Last year the rate was .0044+.

VIII. High School Graduation.

PROGRAM.

"AIDA MARCH" ..... *Verdi*
Gems from the Manhattan Opera House, arranged by Tobain.

SCHOOL ORCHESTRA.

CHORUS,
(*a*) "O Turn Thee" [from Gallia] ..... *Gounod*
(*b*) "The Song of the Triton" ..... *Molloy*

Class Pianist, FREDERICK SANFORD MANTER.

SALUTATORY, "Silent Friendships,"

MARION LOIS MAGOON.

"CARMENA" ..... *H. Luce Wilson*

SEMI-CHORUS.

CLASS HISTORY,

JAMES THOMPSON COLBY.

CHORUS, "March of the Toreadors" [from Carmen] ..... *Bizet*

VALEDICTORY, "Efficiency,"

MARIAN ROBBINS.

PRESENTATION OF DIPLOMAS,

MAYOR EDWARD C. SMITH.

SINGING OF CLASS ODE.

MEMBERS OF GRADUATING CLASS, 1912.

Boys.

Parker Bailey
Verne Raymond Bailey
Leon Henry Barnard
Harold Sunderlin Brown
Carroll Lee Bryant
William Slade Buffington
William R. Byrne
William B. Caldwell
James Thompson Colby
James Tracy Colby
William B. Cushing
George Allan Dixon
Bernard H. Dwight
Harold Eastman
Earle Webb Freeman
Harold Weston French
Harry August Gellrich
William Arthur Hale
Lee Forrest Hill
Maurice Whitcomb Holton
Harvey Jenkins
Harold Earl Kidder
Leon W. Langmaid
Allen Dodge Lewis
Frederick Sanford Manter
Henry Edwin Marshall

James House Marshall
John Thomas McDonnell
Hubert Boniface McDonough
Walter Carl Merkel
Henry Lafayette Miller
Etienne Paradis
William Gordon Pingree
Joseph F. Ready
Ernest Alexander Rainey
Harold Thomson Reynolds
Louie Rich
Ernest R. Saunders
William Lee Scott
Harry Segal
Frank Bernard Smillie
Harold Newell Snow
Harold Arthur Steele
Nixon Streit
N. Harrison S. Vincent
Edgar Richard Wagner
Herbert Walter Wiesner
Ralph Charles Wilbur

Girls.

Marian Louise Adams
Elizabeth Jewell Aiken
Gladys Merrill Annis
Florence Mildred Barnard
Verna Annie Barnard
Hazel Batchelder
Gula Ernestine Bell
Mae Eleanor Bradley
Louise Elizabeth Burpee
Euphrosyne Carvelle
Beatrice Alfredia Cheever
Hazel Maud Coldwell
Mildred Frances Dinsmore
Helen Rice Donahue
Mary Agnes Drennan
Lillian May Eldredge
Muriel Esther Findlay
Maude Newman Flack
Mary Goodman
Louise Marie Grenier
Ruth Lee Harris
Mabel Valentine Hoitt
Doris Elizabeth Holt
Pauline Huse
Mary Spofford Ireland
Bernice Mae Johnson
Martha Johnson
Gladys Mae Jones
Helen Rebecca Kendall
Harriette Kennedy
Rena Belle Kimball
Gertrude Bertha Knoettner
Mary Lillian Lewis
May Frances Libbey
Pauline Lowenstam
Marion Lois Magoon
Louise Clara Mayo
Leah Mendoza
Isabel Leslie Menzies
Josephine Victorine Miville
Ellen Elizabeth Molan
Ruth Hunt Newton
Esther Marie Pearson
Dorotha Kennedy Perry
Dora Lillian Pike
Marguerite Story Riley
Marian Robbins
Olive Martha Rowe
Leota Agnes Seaward
Natalie Turner Southard
Marion Elizabeth Stark
Edith Landon Stearns
Gladys Katherine Stewart
Jeannette Stewart
Flossie Ina Taylor
Grace Rhodell Titus
Florence Elizabeth Tuttle
Blanche Ethel Wallace
Hazel Edith Woods
Helen May Zickendrath

CLASS ODE.

Written by Mary Spofford Ireland.

"Labor Omnia Vincit."

As a goal of our youth we reach tonight—
  A goal to which we have long pressed on—
We backward glance at the road we've passed,
  And recall the various triumphs won.
Our failures, too—we despise them not,
  For, though defeated, we did not fall,
But we learned by them to rise again
  By labor, for Labor Conquers All.

The path in the future we shall tread
  From year to year, may lead up the steep,
Yet we start to climb without dismay,
  Our aim, rewards we hope to reap.
As we take our leave through the gate tonight,
  And bid farewell to our cherished hall,
Our hearts are light, for our wills are strong
  To labor, and Labor Conquers All.

IX. Winners of Clarke Prizes.

FOR EXCELLENCE IN ELOCUTION AT CONTEST, JANUARY, 1912.

First prize, $25, Margaret Elizabeth Johnson.
Second prize, $20, M. Marguerite Harris.
Third prize, $10, Cassius Webster Miller.
Fourth prize, $5, Mae R. Resnik.

X. Organization. 1913.

SCHOOL COMMITTEE.

CHARLES C. HAYES, *Mayor*, *Ex officio Chairman*
JAMES M. YUILL, 93 Middle street,
President of Common Council, ex officio
EDWARD B. WOODBURY, *Vice-Chairman of the Board*
CHARLES H. MARTEL, 327 Pearl street, *Clerk of the Board*

Ward 1. Patrick B. Maloney, 47 Water street.
Ward 2. Allan M. Wilson, 293 Myrtle street.
Ward 3. George M. Watson, 17 Oak street.
Ward 4. William A. Phinney, 450 Manchester street.
Ward 5. Francis J. Hurley, 263 Green street.

Ward 6. Joseph M. McDonough, 279 Spruce.
Ward 7. Edward B. Woodbury, 73 Pleasant street.
Ward 8. Frank A. Cadwell, 142 Douglas street.
Ward 9. Euc. F. Geoffrion, 494 Hevey street.
Ward 10. Maurice L. Bullard, 445 Brown avenue.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

CHARLES W. BICKFORD.

Residence, 1077 Union street. Office, City Hall building.

Telephone 1615.

Office Hours.—From 8 to 9 o'clock A. M., on school days, except Thursdays; Thursdays from 7.30 to 8.30 P. M.

SUPERINTENDENT'S CLERK.

FANNIE L. SANBORN,

253 Ash street.

Office Hours.—8 to 11.30 A. M., and 1.30 to 5 P. M. on school days; 8 to 12 M. Saturdays.

Office closed during vacations.

Employment certificates granted by Truant Officer, 11.30 A. M. to 1 P. M., 7.00 to 9.00 P. M. Thursdays.

TRUANT OFFICERS.

CURTIS W. DAVIS,

849 Chestnut street.

HARRY J. WOODS,

519 Lake avenue.

To be found at Superintendent's office, City Hall building, daily. from 11.30 A. M., to 1 P. M., also on Thursday evenings from 7.00 to 9.00.

STANDING COMMITTEES.

Finance.—Mayor Hayes, Messrs. Yuill, Woodbury, Cadwell and Bullard.

Text-Books.—Messrs. Wilson, Woodbury, and Watson.

Music.—Messrs. Cadwell, Hurley and Watson.

Drawing.—Messrs. Bullard, Cadwell and McDonough.

Manual Training.—Messrs. Wilson, Bullard and Phinney.

Examination of Teachers.—Messrs. McDonough, Cadwell and Wilson.

Fuel.—Mr. Phinney, Mayor Hayes, Messrs. Yuill, Maloney and Geoffrion.

Repairs.—Messrs. Hurley, Phinney and Maloney.
Attendance.—Messrs. Geoffrion, Bullard and Phinney.
Health.—Messrs. Watson, McDonough and Cadwell.

SUB-COMMITTEES.

High.—Messrs. Watson, Bullard and McDonough.
Amoskeag.—Messrs. Wilson, Geoffrion and Cadwell.
Ash-street and Webster's Mills.—Messrs. Watson, Woodbury and Geoffrion.
Bakersville and Mosquito Pond.—Messrs. Bullard, Phinney and Watson.
Brown.—Messrs. Geoffrion, Watson and Woodbury.
Chandler.—Messrs. Phinney, Cadwell and Maloney.
Franklin-street.—Messrs. Woodbury, Maloney and Bullard.
Goffe's Falls and Highland.—Messrs. Bullard, Maloney and Cadwell.
Hallsville and Harvey.—Messrs. McDonough, Wilson and Phinney.
Lincoln-street and Youngsville.—Messrs. Phinney, Hurley and Wilson.
Main-street.—Messrs. Geoffrion, Cadwell and Bullard.
Maynard.—Messrs. Hurley, Phinney and Watson.
Parker.—Messrs. Cadwell, Wilson and McDonough.
Pearl-street.—Messrs. Woodbury, Maloney and Phinney.
Rimmon.—Messrs. Geoffrion, Watson and Woodbury.
Spring-street.—Messrs. Maloney, Woodbury and Watson.
Straw.—Messrs. Wilson, Geoffrion and Cadwell.
Varney.—Messrs. Cadwell, McDonough and Watson.
Webster-Street and Stark.—Messrs. Wilson, Hurley and Bullard.
Wilson.—Messrs. McDonough, Watson and Phinney.
Kindergartens.—Messrs. Watson, Woodbury and Hurley.
Evening Schools.—Messrs. Hurley, Bullard and Woodbury.

XI. List of Teachers.

(Giving the name, school, grade of school, and residence of each teacher.)

HIGH SCHOOL.—BEECH STREET.

Master.—George H. Libby, 581 Chestnut street.
Submaster.—*George I. Hopkins, 835 Beech street.
Assistants.—*Harry N. McLaren, 527 East High street.
Charles F. Bates, 188 Sagamore street.
*Norris D. Blake, 240 Sagamore street.
Allan E. Herrick, 91 Russell street.
Winfred S. Ross, 21 Ash street.
*Mary J. Wellington, The Delta.
*Mary H. Dowd, 43 High street.
*Elsie D. Fairbanks, 337 Walnut street.

Annie M. Vose, 689 Union street.
Edith M. Pierce, Goffstown, N. H.
*Bertha A. Blanchet, 467 Hanover street.
Helen I. Buck, 324 Myrtle street.
Cora J. Russell, 93 Myrtle street.
Anne G. Towle, 191 Ash street.
Bertha V. Healey, 304 Central street.
Florence E. King, 41 High street.
Mildred Fritz, 754 Chestnut street.
Helen Furness, 278 Orange street.
Natalie Jones, 571 Chestnut street.
Anna M. Brown, 826 Beech street.
Katherin Barss, 826 Beech street.
Anna F. Barry, 273 Walnut street.
Florence Dinsmore, 571 Chestnut street.
Clerk.—Vona M. Mellen, 581 Chestnut street.

*Heads of Departments, Mathematics, Science, Commercial, Latin, English, History, French.

AMOSKEAG SCHOOL.

Principal.—Blanche L. Bachelder (Grades 8, 7, 6), 276 Orange street.
Grades 5, 4.—Edna L. Merrill, 375 Concord street.
Grades 3, 2.—Anna C. O'Donoghue, 131 Laurel street.
Grades 2, 1.—Mildred G. Morey, 710 Beech street.

ASH-STREET SCHOOL.

Second Floor.

Master.—Edgar D. Cass, 298 Prospect street.
Master's Assistant.—Amelia L. Graupner (Grade 8), 215 Walnut street.
Grade 7.—Emma I. McLaren, 319 East High street.
Grade 6.—Belle R. Daniels, 586 Beech street.
Grade 5.—Emma J. Cooper, 488 Maple street.

First Floor.

Grade 4.—Mary E. Bulman, 600 Beech street.
Grade 3.—Alice E. Good, 186 Lowell street.
Grade 2.—May F. Nutt, 604 Beech street.
Grade 1.—Hulda C. Graupner, 215 Walnut street.

BAKERSVILLE SCHOOL.

Principal.—Elizabeth A. Burns (Grades 8, 7), 214 Calef road.
Principal's Assistant.—Lelia A. Brooks, 34 Brown avenue.
Grade 7.—Jennie F. McGrath, 350 Auburn street.
Grade 6.—Kathryn D. McKeon, 279 East Spruce street.
Grades 5, 4.—Gertrude B. Batchelder, 826 Beech.
Grade 4.—Florence M. Jarvis, 447 Hanover street.

Grade 3.—Augusta S. Downs, 397 Merrimack street.
Grade 2.—Phoebe C. Riley, 73 Buzzell street.
Grade 1.—Frances C. Murphy, 33 Appleton street.

BROWN SCHOOL.

Second Floor.

Principal.—Blanche E. Hicken (Grades 8, 7), West Salmon street.
Grade 6.—Laura E. McKenna, 154 New Mast road.

First Floor.

Grade 5.—Catherine E. Haggerty, 16 High street.
Grades 4, 3.—Helen R. White, 70 Kelley street.
Grades 3, 2.—Irene M. Moore, 520 South Main street.
Grades 2, 1.—Sarah A. Hodgman, 42 George street.

CHANDLER SCHOOL.

Principal.—Alice C. Taggart (Grade 6), 46 Broklyn avenue.
Grade 2.—Jennie R. McLaughlin, 646 Maple street.
Grade 1.—Helen N. Bly, 722 Beech street.

Kindergarten.

Principal.—Mabel B. Currier, 225 Bridge street.
Assistant.—Eugenia Morey, 710 Beech street.

Second Floor.

Grade 5.—Harriet S. Tuttle, 154 Lowell street.
Grade 4.—Ede B. Shand, 317 East High street.
Grade 3.—Amy K. Northrup, 454 Merrimack street.
Grade 2.—Delia B. Clark, 368 Merrimack street.

FRANKLIN-STREET SCHOOL.

Second Floor.

Master.—Isaac Huse, 143 Mammoth road.
Master's Assistant.—Frances E. Barndollar (Grade 8), 1458 Elm street.
Grade 7.—Helen F. Lyons, 270 Lake avenue.
Grade 6.—Daisy E. Flanders, 714 Beech street.
Grade 5.—Hazel M. Garmon, 517 Manchester street.

First Floor.

Grade 4.—Grace M. Whittemore, 11 Nashua.
Grade 3.—Gwendolyn A. Woodbury, 345 Hosley street.
Grade 2.—Mae E. Hills, 331 Lowell street.
Grade 1.—Ida L. Montgomery, 306 McGregor street.

GOFFE'S FALLS SCHOOL.

Principal.—Carolina E. Head (Grades 8, 7, 6), 571 Chestnut street.
Grades 5, 4, 3.—Edith A. Murphy, 162 Winter street.
Grades 2, 1.—Anna B. McDonald, 78 Spring street.

HALLSVILLE SCHOOL.

Second Floor.

Master.—William H. Huse, 97 Mammoth road.
Master's Assistant.—Millicent S. Morse (Grade 8), 963 Valley street.
Grade 7.—Olive A. Rowe, 118 Walnut street.
Grade 6.—Mary L. Mooar, 330 East High street.
Grade 5.—Marjory H. McDougall, 156 Calef road.
Grade 4.—Mildred H. Eager, 911 Union street.

First Floor.

Grade 4.—Ina E. Tuttle, 496 Hall street.
Grade 3.—Marion L. Smith, 1034 Hayward street.
Grade 3.—Martha J. Kennedy, 457 Milton street.
Grade 2.—Vivian E. Matthews, 496 Hall street.
Grade 1.—Alice B. Morrill, 296 Laurel street.
Grade 1.—Annie R. Corson, 1034 Hayward street.

HIGHLAND SCHOOL.

Principal.—Annabel D. Wyman (Grades 8 to 5), 685 Hanover street.
Grades 5 and 3.—Mildred W. Simons, 93 Prospect street.
Grades 2 and 1.—Helen M. Welch, 949 Union street.

LINCOLN-STREET SCHOOL.

Second Floor.

Master.—Alvah H. M. Curtis, 329 Orange street.
Master's Assistant.—Gertrude Adams (Grade 8), 332 Hanover street.
Grade 7.—Josephine E. Paige, 418 Amherst street.
Grade 6.—Lillian F. Crowther, 376 Manchester street.
Grade 5.—Ethelyn M. Stearns, 33 Hall street.

First Floor.

Grade 4.—J. Elizabeth Cate, 502 Merrimack street.
Grade 3.—Frances L. Farrell, 126 Lowell street.
Grade 2.—Theodora Richardson, 481 Lincoln street.
Grade 1.—Nettie S. Rennie, 439 Laurel street.

LOWELL-STREET SCHOOL.

Manual Training.

Principal.—Fred E. Browne, 19 South Spring Street, Concord, N. H.
Assistants.—John Black, Jr., Y. M. C. A.
Charles M. Curl, 279 Ash.
R. Willis Flanders, 328 Milford.

MAIN-STREET SCHOOL.

Second Floor.

Principal.—Mary W. Mitchell (Grade 5), 341 Hanover street.
Grades 5, 4.—Hattie O. Willand, 16 Monroe street.
Grade 4.—M. Minnie Sturtevant, 128 Milford street.
Grades 4, 3.—Elizabeth F. Walsh, 166 North Main street.

First Floor.

Grade 3.—Kate T. Clarke, 313 Granite street.
Grades 3, 2.—Mary H. O'Dowd, 697 Pine street.
Grades 2, 1.—Myrtle V. Slager, R. F. D. No. 6.
Grade 1.—Clara V. Clement, 104 Parker street.

MAYNARD SCHOOL.

Principal.—Nellie F. Dunnington (Grades 5, 4), 367 Lake avenue.
Grade 4.—Ella M. Chapman, 36 Vinton street.
Grade 3.—Bessie R. H. Caine, 7 Old Falls road.
Grade 2.—Mary A. Brennan, 487 Candia road.
Grade 1.—Hazel R. Porter, 330 East Spruce street.
Grade 1.—Mary K. Connor, 260 Lowell street.
Special Class.—Florence A. Prescott, 612 Belmont street.
Special Class.—May R. Callaghan, 1017 Hayward street.

PARKER SCHOOL.

First Floor.

Principal.—Mary E. Moulton, 265 Milford street.
Principal's Assistant (Grades 8, 7).—Mary L. Ayer, 51 Erie street.
Grades 3, 2.—Agnes L. Montgomery, 306 McGregor street.
Grade 2.—Lorna E. Morrison, 11 Parker street.
Grade 1.—Maude E. Winegar, 186 Bowman street.

Second Floor.

Grade 6.—Frances M. Landers, 924 Clay street.
Grade 5.—Marion F. Partridge, 73 Sagamore street.
Grade 4.—Gertrude S. Mitchell, 6 South Main street.
Grade 3.—Eda M. Barr, 178 Milford street.

PEARL-STREET SCHOOL.

Principal.—Mary G. Tynan (Grade 4), 235 Pearl street.
Grade 3.—Nellie M. Smith, 1327 Hanover street.
Grade 2.—Florence Abbott, 333 East High street.
Grade 1.—Alice E. Walsh, 166 North Main street.

RIMMON SCHOOL.

Second Floor.

Principal.—Alice M. Pepin (Grades 5, 4), 538 Dubuque street.

First Floor.

Grade 4, Special.—Louise M. Bryson, 486 Granite street.
Grade 3.—Mary S. White, 70 Kelley street.
Grades 2, 1.—Gertrude A. Lowe, 477 Bridge street.

SPRING-STREET SCHOOL.

Second Floor.

Principal.—Annabel Emerson (Grade 4), R. F. D. No. 2.
Grade 3.—Lou E. Kean, 271 Laurel street.
Non-English, Substitute.—Marguerite C. Donnelly, 36 Prince street.

First Floor.

Grade 2.—Sadie B. Davis, 81 Winter street.
Grade 1.—Sarah B. Dunbar, 538 Lake avenue.

Kindergarten.

Principal.—Grace M. Carr, 347 Bridge street.
Assistant.—Edith M. Sturtevant, 605 Belmont street.

STRAW SCHOOL.

First Floor.

Principal.—Alta C. Willand, 16 Monroe street.
Principal's Assistant.—Marjorie S. Woodbury (Grade 8), 73 Pleasant street.
Grade 7.—M. Eunice Willand, 16 Monroe street.
Grade 2.—Florence H. Moore, 841 Union street.
Grade 1.—Edith M. Stebbins, 92 Walnut street.

Second Floor.

Grade 6.—Elizabeth J. McKelvie, 326 Laurel street.
Grade 5.—Laura M. Gould, Goffstown, N. H.
Grade 4.—Marjorie M. Holt, 412 Amherst street.
Grade 3.—Lauretta B. Sawtelle, 273 Central street.

Kindergarten.

(Straw Mansion.)

Principal.—Elsie M. Dustin, 79 Pennacook street.
Assistant.—Katherin S. Winegar, 186 Bowman street.

VARNEY SCHOOL.

Second Floor.

Master.—George Winch, 804 Beech street.
Master's Assistant.—Jennie V. Williamson*(Grade 8), 31 Carroll street.
Substitute.—Bertha L. Marden, 307 Walnut street.
Grade 7.—Esther M. Dickey, 38 Avon street.

Kindergarten.

Principal.—Marion Ryan, 432 Walnut street.
Assistant.—Maude A. Avery, 352 Laurel street.

First Floor.

Grade 6.—Helen M. Bullard, 286 Jewett street.
Grade 5.—Substitute, Mary E. Walker, 356 Hanover street.
Grade 4.—Mary E. Trinity, 50 Elm avenue.
Grade 3.—Jennie M. Landers, 924 Clay avenue.
Grade 2.—Martha E. Lenz, 24 Charlestown avenue.
Grade 1.—Annie E. Walsh, 166 North Main street.

WEBSTER-STREET SCHOOL.

Second Floor.

Master.—John Gault, 700 Pine street.
Master's Assistant.—Maude Lamprey (Grade 8), 96 Blodget street.
Grade 7.—Lillian Whitney, 488 Central street.
Grade 6.—Jennie Russell, 72 Appleton street.
Grade 5.—Eva F. Tuson, 36 Appleton street.

First Floor.

Grade 4.—Jean Gillan, 7 West Appleton street.
Grade 3.—Marcia M. Moore, 841 Union street.
Grade 2.—Agnes M. Woodbury, 73 Pleasant street.
Grade 1.—Sarah M. McKelvie, 326 Laurel street.

WILSON SCHOOL.

First Floor.

Principal.—Barbara B. Joy, 481 Hanover street.
Principal's Assistant.—Blanche L. Bryant (Grades 8, 7), 382 Central street.

*Granted leave of absence.

Grade 3.—Bertha B. Franks, 96 West Merrimack street.
Grade 2.—Florence L. Abbott, 356 Laurel street.
Grade 1.—Avis A. Armstrong, 311 Lake avenue.

Second Floor.

Grade 6.—L. Helen Haskell, 459 Manchester street.
Grade 5.—Harriet H. Richardson, 481 Lincoln street.
Grade 4.—Florence Richardson, 481 Lincoln street.
Substitute.—Frances J. Prescott, 612 Belmont street.
Grade 3.—Elizabeth H. Callaghan, 1017 Hayward street.
Grades 1, 2.—Marjorie Drew, 336 Manchester.

YOUNGSVILLE.

Principal.—Mary E. Stevens (Grades 5, 4), 341 Hanover street.
Grades 3, 2, 1.—Blanche L. Corning, 521 Lake avenue.

UNGRADED SCHOOLS.

Harvey.—Emma J. Ela, 585 Beech street.
Mosquito Pond.—Agnes C. Bruton, 292 Grove street.
Stark street.—Nellie K. Bates, 645 Maple street.
Webster's Mills.—Edna A. Blood, 397 Merrimack street.

SPECIAL TEACHERS.

Music.—Walter H. Butterfield, 382 Walnut street.
Maude E. Brown, 18 Brook street.
Drawing.—J. Warren Thyng, 92 Arlington street.
Annie W. Patten, 254 Laurel street.

SUBSTITUTES.

Margaret Donnelly, 36 Prince street.
Frances J. Prescott, 612 Belmont street.
Mildred F. Center, 823 Chestnut street.
Mabel H. Ashcroft, 474 Lake avenue.
Sarah H. Russell, 72 Appleton street.
Ruth I. Leckie, 31 Prince street.
Sadie G. Hutchinson, 30 Morrison street.

JANITORS.

High School.

Janitor and Schoolhouse Agent.

Charles F. Jack, 137 West Merrimack street.

Assistant Janitor.

Esquire Priestly, 137 West Merrimack street.

Engineer.

George H. Jack, 51 Ash street.

Amoskeag School.

Sherman L. Flanders, 51 Front street.

Ash-Street School.

George Lawrence, 279 Pearl street.

Bakersville School.

Edwin N. Baker, 10 Brown avenue.

Brown School.

Octave Bergeron, 38 Joliette street.

Chandler School.

John S. Avery, 404 Merrimack street.

Franklin-Street School.

Edward A. Powers, 283 Laurel street.

Goffe's Falls School.

Louis Hueber, 2966 Brown avenue.

Hallsville School.

William H. Newry, 375 Lake avenue.

Highland School.

Marshall N. Badger, 600 South Beech street.

Lincoln-Street School.

Hugh McVicar, 376 Orange street.

Main-Street School.

Philip Rogler, 121 Milford street.

Maynard School.

Harvey H. Johnson, 382 Merrimack street.

Parker School.

William F. Henderson, 153 Bowman street.

Pearl-Street School.

Fred F. Whitten, 352 Pearl street.

Rimmon School.

Urbain Gelinas, 430 Cartier street.

Spring and Lowell-Street Schools.

John Burke, 245 Cedar street.

Straw School.

William A. Tufts, 41 Appleton street.

Varney School.

Joseph H. Buffum, 63 Boynton street.

Webster-Street School.

William J. Powers, 30 Ray street.

Wilson School.

Dennis Sullivan, 262 Green street.

Youngsville School.

C. D. Emerson, Candia road.

XII. School Year. 1912-1913.

Fall term opened September 9, 1912, closed December 17, 1912.

Winter term of twelve weeks opened December 30, 1912, closed March 21, 1913.

Spring term opened April 7, 1913, closed June 25, 1913.

Fall term opens September 2, 1913.

REPORT

OF THE

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

REPORT OF THE CHIEF ENGINEER OF THE FIRE DEPARTMENT.

CHIEF ENGINEER'S OFFICE.

CENTRAL STATION, NO. 12 VINE STREET.

MANCHESTER, N. H., December 31, 1912.

To the Honorable Edward C. Smith and Board of Aldermen of the City of Manchester, N. H.:

In compliance with law and ordinances of the city, I herewith submit my thirty-fourth annual report of the fire department, it being the sixty-seventh of this city.

The department responded to one hundred and forty-one (141) bell alarms, and four hundred (400) still alarms, making a total of five hundred and forty-one (541) alarms, thirty-three (33) more than last year, and far exceeding that of any previous year.

One second alarm was given May 1 by some "crazy-head" for a chimney fire, and one third, or "general" alarm, May 12, for the Boston & Maine roundhouse. There were twenty (20) false alarms, one hundred and fifty-four (154) chimney fires, seventy-three (73) grass, brush and forest fires, and seventy-four (74) dump, automobile and electric car fires.

January 26 a telephone call from Milford, N. H., was received, asking for assistance for a fire at the Furniture Manufactory of French & Heald. At 12.10 noon left on special train, taking Engine 4 and hose-wagon and horses with about thirty (30) men. On arrival at Milford the fire was under control, and apparatus was not unloaded, but the men rendered valuable services, assisting the local firemen for nearly four hours.

In the process of extinguishing fires the department has laid one hundred fifty-one thousand three hundred and seventy-five (151,375) feet of hose, used six thousand four hundred and ninety (6,490) feet of ladders; three hundred and seven (307) pony extinguishers and two hundred and sixty-nine (269) chemical tanks.

The aggregate losses, insurance, valuations, etc., as near as was possible to obtain, are as follows:

Value of buildings where losses have occurred.....	$912,775.00
Value of contents where losses have occurred.....	210,487.36
Total value.....	$1,123,262.36

Insurance carried on buildings		$610,416.34
Insurance carried on contents		127,380.00
Total insurance carried		$737,796.34
Damage to buildings	$48,560.91	
Damage to contents	45,794.61	
		$94,355.52
Insurance paid on buildings	$41,050.22	
Insurance paid on contents	34,019.36	
Total insurance paid		75,069.58
Net loss over and above insurance		$19,285.94

THE MANUAL FORCE

of the department remains unchanged from the previous report and at the present time consists of sixty (60) permanent and one hundred and twenty-one (121) "call" men, making a total of one hundred and eighty-one (181) members, and are assigned as follows:

	Permanent	Call	Total
1 chief engineer	1		1
4 assistant engineers		4	4
Engine Company No. 1	4	7	11
Engine Company No. 2	4	7	11
Engine and Ladder Company No. 3	5	15	20
Engine Company No. 4	4	7	11
Engine and Ladder Company No. 5	5	15	20
Engine and Ladder Company No. 6	5	15	20
Engine and Ladder Company No. 7	5	15	20
Hose Company No. 1	2	6	8
Hose Company No. 2	2	6	8
Hose Company No. 3	2	6	8
Combination No. 2	2	6	8
Aërial truck No. 1	3	9	12
Chemical No. 1	3	2	5
Auto-Comb. Chemical and Hose Wagon	8		8
Spare (Sub.) Members	5		5
Driver Supply Wagon		1	1
	60	121	181

Whenever the house which is now contracted for is finished on South Main street, on the south side of the 'Squog river, for Truck 8, it will necessitate an additional force of eight (8) men, four (4) of whom should be permanent and the balance "call" men.

THE APPARATUS

consists of 7 steam fire engines, 11 hose wagons (two combination chemicals, one with ladders attached), 5 hook and ladder truck (one an eighty-five foot aërial, carrying other ladders), 1 chemical engine,

with two sixty-gallon tanks, 1 automobile combination wagon, with one thirty-five-gallon tank, 9 exercise wagons, 1 supply wagon, 2 spare one-horse hose carriages, 1 fire-alarm telegraph repair wagon, 1 chief's wagon, located as follows:

Central Station: Two first size Amoskeag steamers, each with one-horse hose wagon attached, 1 three-horse hitch, 85-feet aërial truck, 1 automobile combination chemical and hose wagon, 1 two-horse hose wagon, 1 double (sixty gallons) tank chemical engine, 1 supply wagon, 1 exercise wagon, 1 chief's wagon, 1 repair wagon for fire-alarm telegraph.

North Main-Street Station: One second size Amoskeag steamer (three-horse hitch), 1 two-horse combination chemical and hose wagon, 1 old U tank steamer in storage, 1 exercise wagon.

McGregorville Station: One second size Amoskeag steamer, 1 two-horse hose wagon, 1 two-horse hook and ladder truck, 1 exercise wagon.

Lake Avenue Station: One first size Amoskeag steamer, with three-horse hitch, 1 two-horse hose wagon, 1 hook and ladder truck (three-horse hitch), 1 exercise wagon, 1 one-horse hose carriage (in storage).

Webster-Street Station: One third size Amoskeag steamer, 1 two-horse hose wagon, 1 two-horse hook and ladder truck, 1 exercise wagon.

Maple-Street Station: One two-horse hose wagon, 1 exercise wagon.

South Elm-Street Station: One two-horse combination hose wagon, carrying ladders, 1 exercise wagon.

Wilson Hill Station: One two-horse combination chemical and hose wagon, 1 exercise wagon, 1 one-horse hose carriage (in storage).

Somerville-Street Station: One second size Amoskeag steamer (with three-horse hitch), 1 two-horse hose wagon, 1 hook and ladder truck, with a forty-gallon chemical tank and 200 feet chemical hose attached, 1 exercise wagon.

In additon to the foregoing there is 1 hose carriage in Amoskeag on Front street, 1 hose carriage corner Massabesic street and Mammoth road, 1 hose carriage, Goffe's Falls, each manned by volunteers, 5 sleds used as hose sleds in the winter.

Engine No. 1 has been equipped with rubber tires and band brakes, and the hose wagon has had new band brakes.

Engine No. 2 is now in repair shop having a new boiler and an overhauling of its pumps and other machinery.

Engine and Ladder No. 5. The steamer has had new rubber tires and band brakes, the hose wagon band brakes, and the truck rubber tires and band brake.

Engine and Ladder No. 6. The truck has had band brakes put on, and early in the year will have new wheels and rubber tires.

Hose No. 2 has had new rubber tires.

Hose No. 3. Running gear varnished and band brakes attached.

Combination No. 2. New rubber tires.

A new "City" Ladder Truck, No. 8, motor driven, contracted for several months ago, is expected early in the year, and as the station on the West Side will not be ready for occupancy for some time, the truck will be placed in commission, relieving Truck No. 6 while being overhauled, and new wheels and axles and rubber tires will be furnished.

Squad A.—Broke Crank Case, and "Jack" Shaft; Radiator and brakes repaired, and air shock absorbers have been attached to the car, that relieve it of sudden jolts and are a protection to the springs.

THE BUILDINGS.

In the early part of September the two-story part of the Central station, originally built in 1864, was torn down, to be replaced by a three-story concrete building, the southern portion of about fifty feet front to be strictly fireproof, the remainder semi-fireproof, or "mill construction."

The fire-alarm station to occupy the entire third story of the fireproof portion, insuring entire safety to that branch of the department in case of a conflagration.

A new brick, two-way house on South Main street, at the junction of Boynton and Woodbury streets, is in process of building and when completed Truck No. 8 will be placed therein, thus affording the much needed ladder service for that section of the city.

The Goffe's Falls Hose house was completed early in the year but not furnished. I would recommend the early furnishing of the same, and the building of needed sheds and other buildings for the convenience of the volunteer company in that section.

THE HORSES.

There are now fifty-six (56) horses in the Department, most of them in serviceable condition. A few will have to be "retired, for the good of the service." Four new ones were bought during the year, two were sold and one died.

THE FIRE-ALARM TELEGRAPH.

After many years of recommending the placing of our fire-alarm wires under ground, it is very pleasing to report that early the coming year this system will be entirely rebuilt, with about ten miles of underground cable laid, a strictly up-to-date Central Office, with all modern improved apparatus, and when completed will be equal to any fire-alarm system in the country, and housed in a fireproof building.

CASUALTIES.

January 12. At a still alarm, Mr. James E. Charnley of 170 Harrison street was severely burned about face and head, from hot alcohol taking fire.

January 14. Martin F. Kenney was overcome by smoke and Capt. Frank H. Harvey of Squad A injured hand at an alarm from box 541.

March 28. William P. Jones of Truck 1 cut leg at fire, box 81, in New Idea shoe store.

March 29. Archie Miller, a substitute fireman, at a fire (box 8), No. 32 Prospect street was overcome by smoke. Off duty six days.

At same fire, Deputy Chief Edwin W. Merrill received painful injuries to shoulder by being thrown from bicycle coming in contact with line of hose.

May 11. James S. Long of Engine and Ladder No. 7, alarm from box 214, cut hand on axe. Off duty fourteen days.

May 12. Jesse L. Perkins, Engine No. 4, at three-alarm fire for Boston & Maine round house, broke bone in foot. Off duty ten weeks.

Leon H. French of Hose No. 1 sprained arch of foot. Off duty twenty-eight days. Harry Barrett of same company sprained ankle. Off duty seven days.

May 16. At a still alarm, Mrs. Richard Parshley was severely burned about hands and arms while lighting fire with kerosene.

May 18. Albert M. Tuson, of Chemical No. 1, at an alarm from box 71, got nail in foot. Off duty twenty-eight days.

June 20. William G. Fraser, Squad A, at a still alarm, injured ankle.

June 23. Capt. Hervey E. Harris, Chemical No. 1, responding to an alarm from box 71, tore ligaments in leg. Off duty fifty days.

June 26. Alfred C. Lamper, Truck No. 1, responding to an alarm from box 21, fell through scuttle in barn, injuring hip. Off duty twelve days.

June 27. Algernon B. Skinner, Truck No. 1, alarm from box 16, got nail in foot. Off duty twenty-two days.

June 30. Harold A. Sayward, Engine No. 4, thrown from bicycle responding to an alarm, box 21. Off duty two days. At same fire, George O. Harvey, Hose No. 1, had hand cut, Lorenzo D. H. Ford, Truck No. 1, injured knee, and Capt. Albert W. Smith cut in head, and at a brush fire same date injured back.

July 9. Fred Marsh, Truck No. 1, alarm from box 71, injured ankle. Off duty six days.

August 24. Tobey Lemay, engineer of Engine No. 6, while backing engine into quarters, broke finger. Off twenty-three days.

September 7. Miss Annie Kelley, of 88 West Bridge street, burned to death by lamp explosion.

September 16. John H. Cote, Engine and Ladder No. 6, while attempting to get on hose wagon for an alarm from box 512, broke bone in foot. Off duty thirty-eight days.

October 20. Louis Loiselle, Squad A, in responding to an alarm from box 114 on a motor cycle, collided with Engine No. 1, crushing the bones of foot and leg so as to render amputation of entire foot above the ankle bone necessary. Still in hospital.

December 2. Capt. Alfred Gustafson, Combination No. 2, in answering telephone call, injured foot in coming down sliding pole. Off duty six days.

THE FIREMEN'S RELIEF ASSOCIATION.

There has been an unusual amount of claims paid from the treasury of this association during the year on account of accidents, and many of our citizens have contributed liberally to its funds. The following is a financial statement for the year:

Balance on hand February 13, 1912	$13,524.65
Donations:	
James A. Scully	10.00
James Lightbody	5.00
Mrs. S. J. Price	10.00
Jeremiah Hodge, two donations of $30	60.00
Mrs. Mary Chandler	25.00
Frank Bourassa	5.00
A friend	25.00
Earle M. Annis, treasurer	10.00
Boston & Maine Railroad	25.00
Halbert N. Bond	25.00
Mrs. Emily Welch	10.00
A friend (North Elm street)	200.00
John P. Cronan	25.00
E. M. Chase, treasurer Amoskeag Realty Co	25.00
James W. Hill Co., two donations $25	50.00
Mrs. Gov. Moody Currier	100.00
Brown & Burpee	25.00
A friend	10.00
Putnam & La Flamme	3.00
A friend	25.00
Dividend on deposits	485.67
Membership dues	201.00
Total	$14,884.32

Cr.

Paid Lyman W. Piper, claim and doctor's bill	$12.00
James S. Long, claim and doctor's bill	24.00
Leon H. French, claim and doctor's bill	33.50
Harry Barrett, claim and doctor's bill	9.00
Algernon B. Skinner, claim and doctor's bill	52.50
Louis Loiselle, claim, on account, doctor's bill	195.00

Paid John H. Coté, claim and doctor's bill	$65.00
Capt. Hervey E. Harris, claim and doctor's bill	82.50
Tobey Lemay, claim	23.00
Charles H. Berhart, doctor's bill	16.50
Capt. Alfred Gustafson, claim and doctor's bill	8.50
George O. Harvey, doctor's bill	5.00
C. Thompson, doctor's bill	1.50
Lorenzo D. H. Ford, doctor's bill	7.00
Henry C. Parsons, doctor's bill	1.00
Lewiell M. Chase, doctor's bill	2.50
William P. Jones, doctor's bill	2.00
Dep. Chief E. W. Merrill, doctor's bill	1.50
Albert M. Tuson, claim and doctor's bill	52.50
James H. McKenzie, claim	140.00
Fred Marsh, claim and doctor's bill	14.00
Alfred C. Lamper, claim and doctor's bill	19.50
Joseph Ashlin, claim and doctor's bill	7.00
Jesse L. Perkins, claim and doctor's bill	83.00
Capt. Frank H. Harvey, claim and doctor's bill	13.50
Martin F. Kenney, claim and doctor's bill	37.00
Will G. Fraser, claim and doctor's bill	22.25
Capt. A. W. Smith, doctor's bills	6.00
Harold A. Sayward, doctor's bill	3.00
William Fitzgerald, doctor's bill	3.00
Chief T. W. Lane, doctor's bill	8.00
Frank M. Frizzelle, doctor's bill	3.00
Morgan & Riddle, printing	11.50
H. R. Packard & Son, surgeon's badge	4.00
Oscar P. Stone, secretary's salary	25.00
Total	$994.25
Leaving a balance to new account of	$13,890.07

I would recommend the immediate purchase of at least five thousand (5,000) feet of rubber-lined fabric hose, of a much better quality than most of that purchased during the last few years, as, by a recent test of all the hose in the department, nearly thirty per cent of it was found in a leaky and unserviceable condition.

I would recommend the purchase of a motor-driven ladder truck to replace Truck No. 3 at the Lake avenue station, as it is in need of extensive repairs, and I feel confident it would well repay the city to replace it for one which will give much quicker service. All leading fire departments in the country are substituting motor-driven apparatus, and our city should keep pace with the improvements.

All our ladder trucks should be supplied with rubber "Protective" blankets to protect goods and furniture from excessive water damage, where fires occur in the upper stories of dwellings and mercantile houses. It would take about two dozen to so equip them.

Respectfully submitted,

THOMAS W. LANE,

Chief of Fire Department.

Number and Location of Fire-Alarm Boxes and Keys.

A KEY IS ATTACHED TO EACH BOX (with few exceptions) and can be had by breaking the glass.

N. 3. Corner Elm and Valley streets. Keys at offices of gas-works, county jail, Manchester Coal & Ice Company's sheds, and the Hutchinson shop building.

No. 4. Corner Spruce and Elm streets. Keys at Hotel Milford, L. B. Bodwell & Co.'s, Palmer & Garmon's, street railway stables, and office of Blodgett & Young's block.

No. 5. Corner of Merrimack and Elm streets. Keys at Price's and Dunnington's drug stores, Manchester House, and J. W. Hill Company's store.

No. 6. City hall. Keys at Holland's drug store, Riddle block office, and residence of J. L. Brock, 21 Amoskeag Corporation.

No. 7. Police station, corner of Manchester and Chestnut streets. Keys at chief of police's office and with all police officers.

No. 8. Corner Elm and Hollis street. Keys at Dante Smith's and Leblanc & Provencher's drug stores, and Partridge Brothers' grain store.

No. 9. Corner of Elm and Webster streets. Keys at residence of J. Freeman Clough, and station of Engine and Ladder No. 5.

No. 12. Corner of North and Pine streets. Keys at residence of Mrs. Walter A. Green and O. D. Knox.

No. 13. Corner of Brook and Chestnut streets. Keys at residence of Welcome Jencks and Mrs. Lewis Simons, No. 1 Senter's block, and Steele's grocery store.

No. 14. Corner of Prospect and Union streets. Keys at residences of Mrs. W. Ireland and D. J. Adams.

No. 15. Corner of Pearl and Chestnut streets. Keys at residence of Henry W. Shannon.

No. 16. Corner of Lowell and Union streets. Keys at residences of Rt. Rev. Bishop Guertin and R. H. Hassam.

No. 17. Corner of Amherst and Beech streets. Keys at residences of Miss Mary A. Watts and Michael Connor, and at the High school.

No. 18. Corner of Manchester and Maple streets. Keys at residences of the late H. E. Stevens, A. N. Baker and William Perkins' estate.

No. 21. Corner of Merrimack and Pine streets. Keys at E. R. Monette's drug store, A. L. Walker's office, and residence of James F. Gillis.

No. 23. Corner of Central and Beech streets. Keys at the residence of the late Eben T. James.

No. 24. Engine and Ladder Company No. 3 house, corner of Massabesic street and Lake avenue. Keys at the residence of D. M. Goodwin and station of Engine and Ladder No. 3.

No. 25. Corner of Hanover and Ashland streets. Keys at residences of George F. Lincoln, Mrs. A. D. Gooden, and James R. Straw.

No. 26. Corner of Bridge and Russell streets. Keys at McCrillis' carriage shop.

No. 27. Corner of Belmont and Amherst streets. Keys at residences of E. S. Fletcher, Dr. Walter T. Crosby and Mrs. William Carr.

No. 28. Corner of Merrimack and Beacon streets. Keys at residences of A. L. Garmon and H. B. Fairbanks.

No. 29. Corner of Hall and East High streets.

No. 31. Corner of Canal and Hollis streets. American Locomotive Company's shop. Keys at office, Amory Mills, Langdon Mills watchrooms.

No. 32. Langdon Mills block, corner of Canal and Brook streets. Keys at the Amoskeag Paper Company's mills, Langdon watchroom and electric light station.

No. 34. Jefferson Mill. Keys at watchroom and pumping station.

No. 35. Stark Mills. Keys at watchroom.

No. 36. Corner Elm and Sagamore streets.

No. 39. Hillsborough county jail. Keys at office.

No. 41. Amoskeag Mills. Keys at watchroom.

No. 42. Manchester Mills. Keys at watchroom.

No. 43. The Olzendam Mill. Keys at watchroom.

No. 45. The S. C. Forsaith building. Keys at freight depot and office in building.

No. 51. Corner of Walker and Second streets. Keys at the stores of F. Riedel and Henry Weber.

No. 52. Granite Square, corner Main street, West Manchester. Keys at Merrimack Hotel, Wiggin-Young grocery, and Engine No. 2.

No. 53. Corner South Main and Mast streets. Keys at mill office, Dewey's tenement block and Ranno's harness store.

No. 54. Corner of A and South Main streets. Keys at residences of Lord sisters, Neil Fullerton, and grocery store opposite box.

No. 56. Mast street, opposite U. S. bobbin shop. Keys at Superintendent Baldwin's office and residences of J. C. Smith, E. P. Littlefield, and with watchman at works.

No. 57. Corner Mast road and D street. Keys at residence of C. H. George and F. W. Towle's store.

No. 61. Hose No. 3, South Elm street. Keys at hose house.

No. 62. Manchester Wool & Leather Company's, Brown avenue. Keys at tannery, the Edwin Kennedy house and Hose 3.

No. 63. Corner Beech street and Titus avenue. Keys at residences of L. E. Carswell and C. L. Wenberg. (No key on box.)

No. 64. Corner Pine and Willow streets. Keys Cohas Shoe factory, the Lincoln House, and Stevens Bros.' Marble Works. (No key on box.)

No. 71. Corner of Cedar and Pine streets. Keys at residences of T. Collins, Daniel Sheehan, Thomas J. Smith, Simon McCarthy.

No. 72. Corner of Lake avenue and Lincoln street. Keys at residences of the late Austin Jenkins and James Briggs.

No. 73. Corner of Beech and Cedar streets. Keys at residences of Rev. J. A. Chevalier and Timothy Carr estate.

No. 81. Central Fire station, Vine street. Keys at all the engine rooms.

No. 82. Old City Hotel, corner Lowell and Church streets. Keys Lowell-street stable and Eames' drug store.

No. 91. Corner Webster and Beech streets. Keys at Children's Home and residences of George E. McClintock, Solomon Johnson and M. E. Sanctuary. (No key on box.)

No. 92. Corner Union and Clarke streets. Keys at residences of Mrs. Julia B. Bradford, E. H. Nutting, and C. E. Page.

No. 93. Corner of Elm and Carpenter streets. Keys at residences of Mrs. A. H. Weston and Mrs. George D. Towne.

No. 112. Corner of Sagamore and Union streets. Keys at residences of W. A. Clarkson, M. D. Johnson and Charles F. Chase.

No. 113. Corner of Oak and Prospect streets. Keys at residences of Mrs. William B. Abbott, W. N. Johnson and E. M. Topliff estate.

No. 114. Corner of Pearl and Ash streets. Keys at residences of John J. Bennett and Mrs. Harriet L. Healey and Ash-street schoolhouse.

No. 115. Corner of Blodget and Ash streets. Keys at residences of James A. Rogers and Cyren Bixby.

No. 116. Corner Salmon and Ash streets. Keys at Masonic Home.

No. 117. Corner of Sagamore and Russell streets.

No. 131. Emergency box, to be substituted when any box is out of repair.

No. 211. Corner of Oakland and Woodland avenues. Keys at residences of J. N. DesGroseilliers, S. Lavigne and Peter Harris estate.

No. 212. Kimball's shoe shop, Hallsville. Keys at the office of the shoe factory and residences of Charles C. Chase, G. W. Dearborn, M. V. B. Garland, and the Walter Cody block.

No. 213. Derryfield Lumber Company. South Beech street, junction of Portsmouth Railroad. Keys at office of Derryfield Lumber Company.

No. 214. Elliott silk mill, corner of Wilson and Valley streets. Keys at office and watchroom of mill.

No. 215. Corner of Lincoln and Silver streets. Keys at offices of Hoyt and McElwain's shoe shops and workshop opposite.

No. 216. Jewett and Somerville streets. Keys at residences of G. H. Hill, 140 Jewett street, and W. B. Brown, 128 Jewett street.

No. 217. Corner Candia road and Massabesic street. Keys at residences of L. M. Streeter, William Gadbois and Charles P. Still.

No. 218. Engine and Ladder Company No. 7, Somerville street. Keys at residences of Mrs. George Hall and George Kay, and at house of Engine and Ladder No. 7.

No. 219. Eaton Heights shoe shop, Page street. Keys at shoe shop office and residences of Charles A. Merrill, John P. Young and Joseph W. Rand. (No key on box.)

No. 221. Corner of Taylor street and Holly avenue. Keys at residences of T. B. Stevens, 109 Taylor street, W. O. Corbin, 443 Holly avenue, and A. J. Prescott, 502 Holly avenue. (No key on box.)

No. 224. Corner of Belmont and Grove streets. Keys at residences of John A. Adams, Joseph Quirin and Mrs. H. G. Walker.

No. 241. Lake avenue hill. Key at residence of Harry L. Davis.

No. 242. Merrimack and Wilson streets. Keys at Capt. C. R. Merrill's and Engine and Ladder Company No. 3.

No. 243. Corner Candia road and Sherburne street. Keys at residences of Fred L. Watts, Alex. Oliver, Andrew J. Murray and Mrs. S. L. Cummings. (No key on box.)

No. 244. Corner Hanover street and Mammoth road. Keys at residences of G. C. Penniman, G. H. Penniman, G. H. Arthur, R. I. Stevens, H. Manning and W. S. Sanborn.

No. 261. Pearl and Ashland streets. Keys at schoolhouse and residences of C. E. Rose, S. W. Bascom and Charles W. Cheney.

No. 263. Corner Bridge street and Mammoth road. Keys at residences of Mrs. Hiram Turner, Andrew J. Johnson, A. D. Sherer, Harvey T. Corey, and city farm. (No key on box.)

No. 312. Corner of Putnam, North Main and McGregor streets. Keys at residences of James Spence (309 Main street), Thomas Bolton, and gate of No. 11 mill.

No. 313. Corner of Amory and North Main streets. Keys at residences of Allen Dean and Lawrence M. Connor, Potvin's drug store, Miville & Co.'s drug store, gate of No. 11 mill, and station of Engine and Ladder No. 6.

No. 314. Corner Amoskeag and First streets, 'Skeag. Keys at Manchester Stocking Company and Riverside hose house.

No. 315. Old Brick store, 'Skeag. Keys at Riverside hose house and D. Jameson's residence.

No. 321. Corner of Notre Dame avenue and Wayne street. Keys at Holy Angels convent, the Brothers' school, and residences of E. H. Doherty and the parish priest.

No. 323. Corner of Putnam and Bartlett streets. Keys at P. J. Archambeault's bakery and residence of Mitchell Barry.

No. 324. Amory and Laval streets.

No. 325. Kelly and Cartier streets.

No. 511. Corner of Douglas and Green streets. Keys at residences of Amelia Davis, William A. Tufts and James Kearns.

No. 512. Corner of Notre Dame avenue and Adams street. West Side.

No. 513. Corner of Milford and Carroll streets. Keys at residences of J. W. Abell, James Ward and Mrs. Elizabeth Ward.

No. 521. Corner Parker and Winter streets.

No. 541. Corner Boynton and Allen streets. Keys at residences of Herbert F. Dow, Patrick J. Connor, Charles Tinker and Benjamin J. Mack. (No key on box.)

No. 542. Corner of Second and West Hancock streets. Key at office of the Crafts shoe shop.

No. 571. Shirley street and Rockland avenue. Keys at residences of J. E. Fitzgerald, G. W. Batchelder, M. R. Greppner, and G. W. Chase. (No key on box.)

No. 611. Corner of Hancock street and Boston & Maine Railroad. Keys at offices of True W. Jones' Brewery and Manchester Slaughtering and Rendering Works.

No. 711. Corner of Union and Grove streets.

No. 911. Corner of Union and Trenton streets. Keys at residences of W. B. Hunt, C. S. Boynton, Mrs. William R. Varick, and Bixby Bros.' greenhouse. (No key on box.)

Also keys will be found in the hands of all regular police.

The true time will be given at precisely 12.30 P. M. from Charles A. Trefethen's jewelry store, and will be denoted by one stroke of the fire bells.

Fire Department Telephone Calls.

Flying Squadron, Central Station	94
Engine No. 2	1481
Engine and Ladder No. 3	1485
Engine and Ladder No. 5	1483
Engine and Ladder No. 6	1482
Engine and Ladder No. 7	373
Hose No. 2	1484
Hose No. 3	1486
Combination No. 2	1487
Chief Engineer Lane's office	94
Chief Engineer Lane's house	1480
Deputy Chief Provost's store	1342
Deputy Chief Provost's house	1151–W
Deputy Chief Fitzsimmons' house	1359
Deputy Chief Merrill's house	787–2
Deputy Chief Seward's house	1889–M
C. H. French, superintendent fire-alarm	1383

Instructions to Keyholders and Citizens.

1. Upon the discovery of a fire, notice should be immediately communicated to the nearest alarm box, the key of which is in a circular box attached to the right side of the fire-alarm box. Keys are also in the hands of all regular police, and generally of persons at the corner or nearest house.

2. Keyholders and others, upon the discovery of a fire, or positive information of a fire, will unlock the box, pull down the hook once as far as it will go (without jerking), and then let it go. Shut the door, but do not try to remove the key, as it is locked in by a trap lock, and can only be removed with a release key, which is carried by each of the engineers, and they will, as soon as convenient, release and return it.

3. All persons giving fire alarms are requested to remain by the box a moment, and if no clicking is heard in the box, pull again; if you still hear no clicking, go to the next nearest box and give an alarm for that. DON'T GIVE A SECOND ALARM without instructions from an engineer, or officer in charge of the fire.

4. Never signal for fire seen at a distance. Never touch the box except to give an alarm of fire. Give an alarm for no other cause than actual fire. DON'T GIVE AN ALARM FOR A CHIMNEY FIRE.

5. Never let the keys go out of your possession unless called for by the chief engineer. *If you change your residence or place of business, where the keys are kept, return the keys to the same officer.*

6. Owners and occupants of buildings are requested to inform themselves of the location of alarm boxes near their property; also all places where the keys are kept. Be sure the alarm is promptly and properly given.

7. Alarms will be sounded upon all the fire-bells in the city, and the number of the box will be given thus: Box 6, six blows, 2½ seconds apart, repeated three times. Box 212, two blows, pause of 6¼ seconds, one blow, same pause, and two blows, 2—1—2, repeated three times.

8. The engineers reserve the right to give one stroke of the bells at any time; and in case of testing the boxes, each test will be preceded by one stroke of the bells.

SPECIAL CALLS ON FIRE-ALARM.

When more apparatus is wanted, without giving second and third alarms, the following special calls will be given:

2—1 for Engine 1.	3—3 for Truck 3.
2—2 for Engine 2.	3—5 for Truck 5.
2—3 for Engine 3.	3—6 for Truck 6.
2—4 for Engine 4.	3—7 for Truck 7.
2—5 for Engine 5.	4—1 for Hose 1.
2—6 for Engine 6.	4—2 for Hose 2.
2—7 for Engine 7.	4—3 for Hose 3.
1—1—1 for Aërial Truck.	4—4 for Combination 2.

Companies answering "special calls" will wait thirty seconds before leaving quarters, to prevent mistakes.

THIRD ALARM.

On THIRD ALARM all apparatus will respond.

GENERAL ALARM.

In the event of a fire of such magnitude that second and third alarms are needed, a general alarm will be given by striking TEN BLOWS, in which case all companies will respond.

OUT-OF-TOWN CALL.

For a fire out of the city or brush fire, 2—2—2, all companies will assemble at their respective quarters and await orders.

ALL-OUT SIGNAL.

Two blows on the bells, which dismisses all members at company quarters.

The signal will be given after companies working at a fire have returned to quarters, "made up," and are ready to respond to another alarm.

TIME SIGNAL.

One blow at 12.30 noon.

SCHOOL SIGNALS.

1—1, with fifteen seconds between blows, closes primary and middle schools.

2—2, with fifteen seconds between the 2's, closes all the schools.

Time for giving same, 7.30 A. M., 11.30 A. M., or 1.15 P. M.

MILITARY CALL.

12 blows twice.

Engine Whistle Signals.

The following code of signals will be observed by members of the department:

For CAPTAIN, or officer in command of company, one long whistle.

For COAL, two long whistles followed by as many short whistles as indicate the number of the engine.

To LIMBER UP, three long whistles.

Entering a Building With a Line of Hose.

All steamer and hose companies are instructed not to enter any building with a line of hose unless the stop nozzle is closed, except in cases where they can see the fire, and when their streams will reach it without damage to other property, due care being exercised as to whether their services are needed.

Extra care should be exercised by hosemen of steamer companies in using "shut-off" nozzles, shutting off to be slow and gradual when steamer is working.

Absent from City or Station.

No permanent member shall leave his station to visit any section of the city without permission of the chief or a deputy chief engineer (or the captain in charge of his company), nor leave the city, or be granted leave of absence, without notifying the chief engineer and procuring a substitute to his acceptance, and the substitute shall be on duty before the applicant leaves his post, except on his regular "days off."

Any call member expecting to be absent from the city shall notify the captain of his company, and before leaving the city shall procure a substitute satisfactory to said captain.

Substitutes running for and answering the names of any call man shall be entitled to the same pay, *pro rata*, as the call man for whom they answer for the time they substitute, and the clerks of the several companies shall keep said substitutes' time and notify the regular call man of the amounts due from him and pay said amount to the substitute performing said service.

Any member of the department not complying with the above rules shall be liable to suspension or expulsion from the department.

The hour of leaving will be 7 o'clock A. M., and members will not leave their stations until the arrival of the spare driver. They must report *promptly at 7 o'clock* the following morning for duty.

Those whose breakfast hour is 6 o'clock will remain at station until 7 o'clock on the dates of their "days off."

Should a fire be in progress at the hour of changes, men will remain on duty until the "all-out" is given, except permission is obtained of the chief, or engineer in charge of fire, to retire. Should a "general" or third alarm be rung while members are in town, they will be expected to report for duty on their days off.

List of Alarms and Fires Responded to during 1912. Loss and Insurance.

STILL. Tuesday, January 2, 8.10 P. M. Chimney fire in three-story wooden tenement house, No. 467 Hevey street, owned by John Costello, and occupied by him, *et al.* Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

Box 15. Thursday, January 4, 10.44 A. M. Three-story brick building, No. 97 Bridge street, owned by Michael Macek, and occupied by Mary Bohan, *et al.* Fire originated in a coal closet on the third floor, where the fire was mostly confined, from some unknown cause. Ex-

tinguished with chemicals. Box pulled by Henry Boyers. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5. Value of building, $19,000; damage, $200; insurance, $19,000; insurance paid, $200. Value of contents, $1,000; damage, $75; no insurance.

STILL. Friday, January 5, 4.20 P. M. Chimney fire in two-story wooden dwelling, No. 435 Amherst street, owned by Frank H. Harvey, and occupied by Natt A. Sargent. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, January 5, 5.50 P.M. Chimney fire in three-story wooden tenement house, No. 49 Douglas street, owned by the Amoskeag Manufacturing Company, and occupied by George Christian. Members of Engine No. 2 responded. Used 1 pony extinguisher.

STILL. Friday, January 5, 6.15 P. M. One-story brick blacksmith shop on Canal, Hollis and Dean streets, owned and occupied by the American Locomotive Company. Cause, sparks from forge. Squad A responded. Used 1 chemical tank.

STILL. Saturday, January 6, 6.10 A. M. Chimney fire in three-story wooden tenement block, No. 51 Pearl street, owned by the estate of Nason Hall, and occupied by Peter Lemire, *et al.* Squad A responded. Used 1 pony and 1 tank.

STILL. Saturday, January 6, 11.20 A. M. Chimney fire in tenement house, No. 47 Nashua street, owned by Daniel McCloud, and occupied by Peter Shannon. Members of Hose No. 2 responded. Used 2 pony extinguishers.

STILL. Saturday, January 6, 11.26 A. M. Chimney fire in cottage house on Candia road, near Sherburne street, owned and occupied by George A. Davis. Squad A responded. No services required.

BOX 71. Saturday, January 6, 1.09 P. M. Three-and-half-story wooden tenement house, No. 64 Cedar street, owned by Joseph Silverstein, and occupied by several families. Cause, sparks from chimney ignited shingles and burned through the roof. Extinguished with chemical. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Truck 3. Value of building, $5,500; damage, $110; insurance, $3,700; insurance paid, $110. No damage to contents.

STILL. Saturday, January 6, 4.00 P. M. Chimney fire in three-story wooden building in rear of No. 44 Amory street, owned by Gordon Woodbury, and occupied by eight tenements and two stores. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

STILL. Saturday, January 6, 4.55 P. M. Three-story wooden block, No. 453 North Main street, owned by Frank C. Livingston, and occupied by O. F. Dubois as a grocery store. Cause, overheated chimney. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

STILL. Saturday, January 6, 6.50 P. M. Chimney fire in two-story wooden tenement house, No. 37 Amherst street, owned by Mrs. Josie

McGillicuddy, of Worcester, Mass., and occupied by Michael Kolodgej, *et al.* Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, January 6, 8.40 P. M. Three-story wooden tenement house, No. 35 Laurel street, owned by the estate of Nason Hall, and occupied by Ernest Beauregard, *et al.* Cause, a "good and hot" fire in a stove. Squad A responded. No services required.

STILL. Sunday, January 7, 1.15 A. M. Three-story wooden building, No. 1161 Elm street, owned by the heirs of J. H. Weston, and occupied by George H. Powers as a lodging house. Cause, smoking in bed. Squad A responded. Used 1 chemical tank.

BOX 4. Sunday, January 7, 2.51 A. M. Three-story wooden tenement and mercantile block, No. 86 Spruce street, owned by the heirs of Wm. Plummer, and occupied by D. Asterion & Co. as a grocery store. Cause, unknown. Box pulled by Carl Hecker. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Value of building, $2,500; damage, $174; insurance, $1,000; insurance paid, $174. Value of contents, $800; damage, $200; insurance, $500; insurance paid, $200.

BOX 53. Sunday, January 7, 7.26 A. M. Two-story dwelling house, No. 115 Goffe street, owned by Peter T. Kean, and occupied by Mrs. Annie Kean and Edward Kean. Cause, thawing out water pipes. Box pulled by citizen. Companies responding: Engines 2, 6, Hose 1, Squad A, Truck 1. Value of building, $2,500; damage, $50; insurance, $1,000; insurance paid, $50. No damage to contents.

STILL. Sunday, January 7, 9.15 A. M. Chimney fire in two-and-half-story wooden dwelling, No. 47 Mill street, owned by the Amoskeag Manufacturing Company, and occupied by Luke Tardif. Squad A responded. Used 1 pony and 1 tank.

BOX 45. Sunday, January 7, 9.08 P. M. Four-story brick block, corner of Auburn and Canal streets, owned by Walter M. Parker, and occupied by several machine and wood-working shops. Cause "back-draft" from boiler set fire to the shavings-bin. Damage slight. Box pulled by watchman. Companies responding: Engines 2, 4, Chemical, Hose 1, 3, Squad A, Truck 1.

STILL. Monday, January 8, 7.05 A. M. Two-story wooden garage, No. 251 Manchester street, owned by the estate of D. B. Varney, and occupied by C. R. Sawyer. Cause, sparks from furnace. Squad A responded. Used 1 chemical tank.

STILL. Monday, January 8, 8.40 A. M. Two-and-half-story dwelling house, No. 131 Hanover street, owned and occupied by Louis Felsher. Cause, explosion of "water-back" to stove. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, January 8, 9.10 A. M. Two-and-half-story dwelling house, No. 417 Mast road, owned and occupied by Edward J. Marston. Cause, chimney fire. Squad A responded. Used 1 chemical tank.

BOX 224. Monday, January 8, 10.54 A. M. Three-story wooden tenement house, No. 731 Summer street, owned by Mrs. M. Almira Robbins,

and occupied by her, Walter A. Wright, Wm. J. Eagan and Mrs. James McQuiggan. Cause, defective chimney. Box pulled by Daniel M. McQuesten. Companies responding: Engines 3, 7, Hose 2, 3, Combination 2, Squad A, Trucks 3, 7. Value of building, $6,000; damage, $1,450; insurance, $5,000; insurance paid, $1,450. Value of contents, $3,050; damage, $600; insurance, $1,000; insurance paid, $460.

STILL. Monday, January 8, 5.15 P. M. Three-story brick block, No. 354 Granite street, owned by Willis B. Kendall, and occupied by Wiggin-Young Co. as a grocery store. Cause, overheated furnace. Members of Engine No. 2 responded with Combination wagon. Used 2 pony extinguishers. While out on this call they attended to a slight fire in a two-story wooden building, No. 13 South Main street, owned by Horatio Fradd, and occupied by William Vaughan as a pool room. Cause, overheated chimney. Used 1 chemical tank. Value of Fradd's building, $5,000; damage, $25; insurance, $2,500; insurance paid, $25.

STILL. Monday, January 8, 6.30 P. M. False alarm, caused by a defect in the "Automatic" alarm system in the Cohas shoe shop, leased by the W. H. McElwain Co., on Willow street. Hose No. 3 responded.

STILL. Tuesday, January 9, 1.30 P. M. Chimney fire in three-story wooden block, No. 57 Central street, owned by Mrs. Nellie M. Green, and occupied by Henry Bellerive. Squad A responded. Used 1 pony and 1 tank.

STILL. Tuesday, January 9, 8.05 P. M. Chimney fire in two-and-half-story dwelling house on Mast road, near the Goffstown line, owned and occupied by Joe Bernard. Squad A responded. Used 1 pony and 1 tank.

STILL. Tuesday, January 9, 9.16 P. M. Chimney fire in four-story brick block, No. 180 Chestnut street, owned by Israel Resnick, and occupied by Apostal Karedimos, *et al.* Squad A responded. Used 1 pony extinguisher.

STILL. Tuesday, January 9, 9.16 P. M. Chimney fire in three-story wooden tenement block, No. 55 Spruce street, owned and occupied by James Mokas. Squad A responded. Used 1 pony extinguisher.

STILL. Tuesday, January 9, 11.20 P. M. Chimney fire in four-story brick block, No. 43 Hanover street, owned by Alfred Quimby, and occupied by Fred Hoffman, *et al.* Squad A responded. Used 1 chemical tank.

STILL. Wednesday, January 10, 9.57 A. M. False alarm, caused by an unadjusted thermostat in the Cohas shoe factory of the W. H. McElwain Co., on Willow street. Hose No. 3 responded.

STILL. Wednesday, January 10, 1.05 P. M. Two-and-half-story wooden building, No. 285 Chestnut street, owned by Griffin and Duguay, and occupied by Joseph Sinot. Cause, thawing out water pipes. Damage slight. Squad A responded. Used 1 pony extinguisher.

STILL. Wednesday, January 10, 4.50 P. M. Chimney fire in two-story brick dwelling, No. 18 Mechanic street, owned by the Amoskeag Manufacturing Co., and occupied by Edward Carr. Squad A responded. Used 1 pony extinguisher.

Box 8. Wednesday, January 10, 5.55 P. M. Four-story brick block, Nos. 23-31 Prospect street, in process of construction, owned by Norwin S. Bean. Cause, "shavings spittoon." Box pulled by F. A. Burnham. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5. Value of building, $25,000; damage, $175; insurance, $16,000; insurance paid, $175.

STILL. Thursday, January 11, 7.20 P. M. Chimney fire in two-story brick block, No. 20 Boyden street, owned by the Amoskeag Manufacturing Co., and occupied by Sam Sévigny. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, January 12, 3.48 A. M. Four-story brick block, No. 16 Concord street, owned by the Amoskeag Realty Co., and occupied by Massé Bros. as a liquor saloon. Cause, cigar stub. Squad A responded. Used 1 chemical tank.

STILL. Friday, January 12, 1.55 P. M. Two-and-half-story dwelling, No. 170 Harrison, owned and occupied by James E. Charnley. Cause, heating alcohol. Mr. Charnley was severely burned. Squad A responded.

STILL. Saturday, January 13, 6.30 A. M. Chimney fire in four-story brick block, No. 43 Hanover street, owned by Alfred Quimby, and occupied by Fred Hoffman, *et al.* Squad A responded. Used 1 chemical tank.

STILL. Saturday, January 13, 7.55 A. M. Chimney fire in cottage house, No. 79 Putnam street, owned and occupied by James Costello. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

STILL. Saturday, January 13, 11.15 A. M. Chimney fire in two-and-half-story dwelling, No. 101 Amherst street, owned by Walter M. Parker, and occupied by Celia Lampron. Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, January 13, 12.50 P. M. Chimney fire in four-story wooden block, No. 195 Hanover street, owned by Mrs. Marion C. Smith, and occupied by Telesphore Bloomey. Squad A responded. No services required.

STILL. Saturday, January 13, 3.15 P. M. Three-story wooden dwelling, No. 564 North Main street, owned and occupied by Edouard J. Octeau. Cause, thawing out water pipes with paper. Members of Engine and Ladder No. 6 responded with hose wagon. No services required.

STILL. Saturday, January 13, 5.50 P. M. Two-story wooden building, No. 316 Bartlett street, owned by A. Gagne, and occupied by him as a residence and store. Cause, overheated chimney. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

STILL. Saturday, January 13, 9.15 P. M. Chimney fire in three-story flat, No. 25 Nicolet lane, owned by S. J. La Flamme, and occupied by twelve families. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

STILL. Saturday, January 13, 10.35 P. M. Chimney fire in two-story wooden tenement building, No. 60 Monadnock lane, owned by Catherine Kearns, and occupied by Narcisse Bourque. Squad A responded. Used 1 pony extinguisher.

STILL. Sunday, January 14, 8.35 A. M. Chimney fire in two-and-half-story dwelling, No. 125 Central street, owned by Harry T. Lord, and occupied by James Orr. Squad A responded. Used 1 pony and 1 tank.

STILL. Sunday, January 14, 10.55 A. M. Two-story wooden dwelling, No. 1705 Elm street, owned and occupied by Mrs. Delana B. Curtis. Cause, thawing out water pipes. Squad A responded. Used 1 chemical tank. Value of building, $15,000; damage, $140.67; insurance, $11,500; insurance paid, $140.67. No damage to contents.

STILL. Sunday, January 14, 11.55 A. M. Water tank in the freight yard of the Boston & Maine railroad. Cause, thawing out water pipes. Chemical engine responded. Used 1 pony extinguisher.

BOX 541. Sunday, January 14, 2.38 P. M. Cottage house, No. 679 South Main street, owned and occupied by August Pietsch. Cause, thawing out water pipes. Box pulled by citizen. Companies responding: Engine 2, Hose 1, Squad A, Truck 6. Value of building, $1,500; damage, $800; insurance, $800; insurance paid $585.25. Value of contents, $500; damage, $365.25; insurance, $300; insurance paid, $280.

STILL. Tuesday, January 16, 8.05 P. M. Three-story wooden block, No. 143 Manchester street, owned by M. Weiner, and occupied by Mary Molis. Cause, burning rags. Squad A responded. No services required.

STILL. Tuesday, January 16, 9.15 P. M. Four-story brick block, No. 45 Hanover street, owned by Frank Johnson, and occupied by George A. Hadley as a restaurant. Cause, kettle of fat boiling over. Squad A rseponded. Used 1 pony extinguisher.

BOX 21. Thursday, January 18, 9.57 A. M. Two-and-half-story wooden tenement house, Nos. 130-132 Merrimack street, owned by G. E. and L. B. Whittemore and Jacob Ratner, and occupied by several families. Cause, unknown. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Squad A, Trucks 1, 3. Value of building, $2,500; damage, $430; insurance, $2,000; insurance paid, $430. Value of contents, $1,000; damage, $150; no insurance.

STILL. Saturday, January 20, 7.25 P. M. False alarm. Somebody telephoned that there was a chimney fire at the corner of Spruce and Elm streets. Squad A responded, but could find no fire.

BOX 4. Saturday, January 20, 7.35 P. M. Two-story wooden tenement house in rear of No. 38 Cedar street, owned by Lawrence M. Connor, and occupied by Wm. McLaughlin, *et al.* Cause, unknown. Box pulled by McLaughlin. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Extinguished with Chemical. Value of building, $2,000; damage, $62.50; insurance, $1,000; insurance paid, $62.50. Value of contents, $200; damage, $10; no insurance.

STILL. Thursday, January 25, 10.05 A. M. Chimney fire in three-

and-half-story brick building, No. 15 Albert street, owned by Herman F. Straw, and occupied by Mrs. Amelia McWeeney. Squad A responded. Used 1 chemical tank.

STILL. Thursday, January 25, 6.46 P. M. Two-story wooden dwelling, No. 289 Merrimack street, owned and occupied by the heirs of Nason Hall. Cause, covering on steam pipes took fire from furnace. Squad A responded. No services required.

STILL. Thursday, January 25, 7.25 P. M. Chimney fire in three-story wooden tenement building, No. 59 Amherst street, owned by Joseph Bradford, and occupied by Mary Koreok. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, January 26, 10.45 A. M. A telephone call came from Milford, N. H., asking for assistance at the fire in the French and Heald furniture factory. Sent Engine No. 4 with hose wagon and about thirty men, and at 11.23 A. M. the train left Manchester, arriving in Milford at 12.10 P. M. On our arrival we were notified that the fire was under control, so we did not unload, but our men assisted the Milford firemen for three or four hours.

STILL. Friday, January 26, 7.40 P. M. Four-story brick block, No. 1152 Elm street, owned by the Manchester National Bank, and occupied by Dr. Gustave Lafontaine. Cause, "snap-match" set fire to a couch mattress. Damage slight. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, January 26, 7.55 P. M. Chimney fire in three-and-half-story block, No. 1 Washington block, on Pearl street, owned by Charles C. Hayes, and occupied by Mary Auger. Squad A responded. Used 2 pony extinguishers.

STILL. Friday, January 26, 9.35 P. M. Chimney fire in two-and-half-story wooden tenement block, No. 541 Chestnut street, owned by the estate of Nason Hall, and occupied by Jennie Duplessis. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, January 26, 10.30 P. M. Mechanics Theatre, a two-story wooden building, No. 35 Lowell street, leased and occupied by Daniel A. Gallagher as a motion picture theatre. Cause, rats and matches. Squad A responded.

STILL. Friday, January 26, 11.30 P. M. An electric car, owned by the Manchester Street Railway, at the corner of Massabesic and Belmont street. Cause, grounded motor. Members of Engine and Ladder No. 3 responded. Used 1 pony extinguisher.

STILL. Saturday, January 27, 12.10 night. Cottage house, No. 107 Russell street, owned by Charles E. Bean, and unoccupied. Steam from sewer caused somebody to think there was a fire. Hose No. 2 responded.

BOX 15. Saturday, January 27, 1.59 A. M. Two-and-half-story dwelling house, No. 101 Bridge street, owned by Michael Macek, and occupied by Pierre E. Boisvert. Cause, unknown. Box pulled by a police officer. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2,

Squad A, Trucks 1, 5. Value of building, $2,500; damage, $650; insurance, $650; insurance paid, $650. Value of contents, $1,500; damage, $600; insurance, $100; insurance paid, $548.

Box 21. Saturday, January 27, 10.26 A. M. Wooden tenement house, No. 179 Manchester street, owned by Anna McKenna, and occupied by Alexander Paris. Cause, child playing with matches. Damage slight. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Squad A, Trucks 1, 3.

STILL. Saturday, January 27, 2.20 P. M. Chimney fire in four-story brick block, No. 2 Hollis street, owned by the heirs of Frank Hubbard, and occupied by R. K. Dubois. Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, January 27, 5.58 P. M. Chimney fire in three-story woden tenement block, No. 122 Lake avenue, owned by V. Pappageorge, and occupied by M. Valencovres. Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, January 27, 7.05 P. M. Chimney fire in a dwelling house, at the corner of Rockland avenue and Shirley Hill road, owned and occupied by George W. Batchelder. Members of Engine No. 2 responded with Combination wagon. Used 1 chemical tank.

Box 221. Sunday, January 28, 8.32 A. M. Cottage house, No. 63 Taylor street, owned and occupied by Arthur W. Bond. Cause, thawing out water pipes. Box pulled by Herman Wheeler. Companies responding: Engine 7, Combination 2, Squad A, Truck 7. Value of building, $2,000; damage, $1,000; insurance, $1,700; insurance paid, $1,000. Value of contents, $600; damage, $102; insurance, $500; insurance paid, $102.

STILL. Sunday, January 28, 8.38 A. M. Electric car No. 8 of the Manchester and Nashua Rapid Transit Line, at the corner of Elm and Amherst streets. Cause, defective heater. Chemical Engine responded. Used 1 pony extinguisher.

Box 4. Sunday, January 28, 10.22 A. M. Three-story wooden tenement block, No. 48 Auburn street, owned by T. Pappas, and occupied by several Greek families. Cause, thawing out water pipes. Extinguished with chemicals. Damage slight. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

STILL. Sunday, January 28, 3.31 P. M. Chimney fire in cottage house, No. 97 Baker street, owned and occupied by Mrs. J. G. Johnson. Hose No. 3 responded. Used 30 feet of ladders, 50 feet of garden hose and 2 pony extinguishers.

STILL. Monday, January 29, 11.50 A. M. Cottage house, No. 255 Bridge street, owned by Leslie E. Parks, and occupied by John G. Rodd. Cause, thawing out water pipes. Hose No. 2 and Squad A responded. Used 1 chemical tank, and laid 300 feet of hose from hydrant. Value of building, $1,000; damage, $100; insurance, $500; insurance paid, $100. No damage to contents.

STILL. Monday, January 29, 8.15 P. M. Chimney fire in three-story wooden tenement block, No. 18 North Main street, owned by Frank P. Johnson, and occupied by several families. Members of Engine No. 2 responded with Combination wagon. Used 1 pony and 1 tank.

STILL. Tuesday, January 30, 6.08 P. M. Cottage house, No. 21 Elm street, owned by Alfred Quimby, and occupied by E. N. Cousins. Cause, wall-paper too close to stove funnel. No damage. Hose No. 3 responded.

Box 73. Wednesday, January 31, 10.16 A. M. Four-story wooden tenement block, No. 163 East Spruce street, owned by James F. Baldwin, and occupied by Mrs. Ann O'Hanlan, *et al.* Fire started on rear piazza on the fourth floor from hot ashes in a wooden box. Extinguished with chemicals. Box pulled by Police Officer John J. Connor. Companies responding: Engines 3, 4, Chemical, Hose 2, 3, Squad A, Truck 3. Value of building, $12,000; damage, $326; insurance, $600; insurance paid, $326. Value of contents, $2,000; damage, $300. No insurance.

Box 21. Wednesday, January 31, 7.32 P. M. Slight fire, in a "cobbler's-shop," in three-story wooden tenement block, No. 246 Chestnut street, owned by Dr. A. F. Wheat, and occupied by several families. Cause, defective flue. Extinguished with chemicals. Box pulled by Police Officer Smith. Companies responding: Engines 3, 4, Chemical, Hose 1, Squad A, Trucks 1, 3. Value of building, $5,000; damage, $54.15; insurance, $3,000; insurance paid, $54.15. No damage to contents.

Box 81. Sunday, February 4, 5.32 A. M. One-story wooden building, No. 20 Amherst street, owned by Mrs. Laura Shea, and occupied by Antony Constan as a shoe-shine parlor and pool room. Cause, cigarette. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, Squad A, Truck 1. Value of building, $4,000; damage, $475; insurance, $2,200; insurance paid, $475. Value of contents, $750; damage $150; no insurance.

STILL. February 4, 3.00 P. M. "Dust-shed" connected with the F. M. Hoyt Shoe Co. shop at the corner of Lincoln and Silver streets. Cause, sparks from a Boston & Maine locomotive. Members of Engine and Ladder No. 7 responded. Used 1 pony extinguisher.

STILL. Monday, February 5, 6.04 A. M.. Chimney fire in three-story wooden tenement house, No. 198 Chestnut street, owned and occupied by James Vallos. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, February 5, 6.10 A. M. Chimney fire in two-and-half--story wooden house, No. 60 Bridge street, owned by Harry T. Lord, and occupied by Joseph Poirier. Chemical Engine responded. Used 1 pony extinguisher.

STILL. Monday, February 5, 11.55 A. M. Chimney fire in wooden tenement house, No. 12 Ferry street, owned by S. Charon, and occupied by several families. Members of Engine No. 2 responded with Combination wagon. Used 2 pony extinguishers.

Box 73. Tuesday, February 6, 12.12 night. A wooden barn in rear of No. 335 Cedar street, owned by Plumpton and Grevoir, and occupied by Alec. Kneizer. Cause, unknown. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 2, 3, Squad A, Truck 3. Value of building, $500; damage, $150; insurance, $300; insurance paid, $150. Value of contents, $300; damage, $40; no insurance.

Box 73. Tuesday, February 6, 4.19 A. M. An unnecessary alarm for the rekindling of the above fire. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 2, 3, Squad A, Truck 3.

STILL. Tuesday, February 6, 5.35 A. M. Chimney fire in three-story wooden tenement block, No. 19 Marion street, owned by James Lightbody, and occupied by nine families. Members of Engine and Ladder No. 6 responded with hose wagon. Used 3 pony extinguishers.

STILL. Saturday, February 10, 9.59 A. M. An automobile at No. 1855 Elm street, owned by Roswell Annis. Cause, "back-fired." Members of Engine and Ladder No. 5 responded. Used 1 pony extinguisher.

Box 52. Sunday, February 11, 2.07 A. M.. Two-and-half-story wooden tenement block, No. 411 Granite street, owned by Edward McDerby, of Bedford, and occupied by ten families. Cause, intoxicated person smoking in bed. Extinguished with chemicals. Box pulled by Police Officer Dunn. Companies responding: Engines 2, 6, Hose 1, Squad A, Truck 6. Value of building, $2,000; damage, $35; insurance, $2,000; insurance paid, $35. Very slight damage to contents.

Box 5. Sunday, February 11, 8.58 A. M. Two-story wooden tenement house, in rear of No. 40 Merrimack street, occupied by Adam Fortuna. Cause, slight fire in box. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

STILL. Sunday, February 11, 9.43 P. M. Slight fire on roof of three-story wooden tenement block, No. 127 Merrimack street, owned by the heirs of A. D. Burgess, and occupied by Peter Operioskee. Squad A responded. Used 1 pony extinguisher.

Box 71. Sunday, February 11, 11.28 P. M. Three-story wooden block, No. 204 Chestnut street, owned by George Poulios, and occupied by several Greek families and by John Tataxt as a coffee-house. Cause unknown. Box pulled by Police Officer Hayden. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Truck 3. Value of building, $3,000; damage, $600; insurance, $1,000; insurance paid, $600. Value of contents, $1,800; damage, $456; insurance, $1,300; insurance paid, $456.

STILL. Monday, February 12, 4.35 P. M. Chimney fire in three-story wooden block, No. 385 Cartier street, owned by John Cronin, and occupied by three families. Members of Engine and Ladder No. 6 responded with hose wagon. Used 2 pony extinguishers.

STILL. Monday, February 12, 6.55 P. M. Chimney fire in four-story brick block, No. 496 Chestnut street, owned by the Polish-American

Surety Co., and occupied by several families. Squad A responded. Used 1 chemical tank, and laid 200 feet chemical hose from hydrant.

Box 62. Tuesday, February 13, 10.17 A. M. Cottage house on Hillcrest avenue, owned by Daniel S. Kimball, and occupied by Howard F. Thompson. Cause, drying clothes too near stove. Extinguished with chemicals. Box pulled by citizen just as Squad A passed the box. Companies responding: Engines 1, 7, Chemical, Hose 1, 3, Squad A, Truck 7. Value of building, $2,500; damage, $190; insurance, $2,000; insurance paid, $190. Value of contents, $800; damage, $50; insurance, $500; insurance paid, $50.

Box 313. Tuesday, February 13, 12.23 noon. Slight fire on roof of a tenement block, No. 46 Marion street, owned by Dodge and Sargent, caused by sparks from a chimney. Box pulled by citizen. Companies responding: Engines 2, 6, Hose 1, Squad A, Trucks 1, 6.

STILL. Tuseday, February 13, 4.15 P. M. Chimney fire in three-story wooden dwelling, No. 119 Central street, owned by the heirs of Thomas Corcoran, and occupied by John Farrie. Squad A responded. Used 1 chemical tank.

STILL. Tuesday, February 13, 6.13 P. M. Two-story wooden dwelling, No. 78 Bridge street, owned by Daniel Eagan, and occupied by Elious Boisvert. Cause, clothes in hall-way caught fire from some unknown cause. Squad A responded. Used 1 pony extinguisher.

STILL. Tuesday, February 13, 7.00 P. M. Chimney fire in three-story wooden tenement block, No. 11 Wayne street, owned by David La Bonté, and occupied by several families. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

Box 211. Wednesday, February 14, 10.54 A. M. Cottage house, No. 101 Revere avenue, owned by Emma Pellerin, and Napoleon Heroux. Cause, sparks from chimney burned only two shingles. Box pulled by a boy. Companies responding: Engine 7, Hose 2, Squad A, Truck 7.

STILL. Wednesday, February 14, 5.50 P. M. Fire in dust and shavings bin of the U. S. Bobbin and Shuttle Co., on Mast street. Members of Engine No. 2 responded with Combination wagon.

STILL. Thursday, February 15, 4.15 A. M. Another fire in dust and shavings bin of the U. S. Bobbin and Shuttle Co. on Mast street. Members of Engine No. 2, with Combination wagon, and Truck No. 6 responded.

STILL. Thursday, February 15, 7.57 A. M. An ash-can in rear of No. 184 Manchester street, owned by J. M. Dery, and used by Peter Robinson. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, February 16, 8.45 P. M. Chimney fire in three-story wooden tenement block, No. 41 Amory street, owned by Gordon Woodbury, and occupied by six families. Members of Engine and Ladder No. 6 responded with hose wagon. Used 1 pony extinguisher.

STILL. Monday, February 19, 10.14 A. M. False alarm, caused by "crossed" wires on the Automatic fire-alarm system of the Cohas shoe

factory, leased by the W. H. McElwain Co., on Willow street. Hose No. 3 responded.

STILL. Monday, February 19, 9.50 P. M. Smoking chimney in a cottage house, No. 287 Massabesic street, owned and occupied by Mrs. George M. Beane. Members of Engine and Ladder No. 3 responded. No services required.

BOX 321. Wednesday, February 21, 6.12 P. M. Chimney fire in two-and-half-story tenement house, No. 23 Wayne street, owned by Robert Leggett, and occupied by Mrs. Mary Provencher. Box pulled by citizen. Companies responding: Engines 2, 6, Hose 1, Squad A, Trucks 1, 6.

STILL. Wednesday, February 21, 8.00 P. M. Chimney fire in two-and-half-story tenement house, No. 568 North Main street, owned by Ed. Octeau. Members of Engine and Ladder No. 6 responded with hose wagon. Used 1 pony extinguisher.

BOX 57. Thursday, February 22, 9.38 A. M.. Chimney fire in dwelling house on Groux Island, owned and occupied by Oliver Groux. Box pulled by citizen. Companies responding, Engine 2, Hose 1, Squad A, Truck 6.

STILL. Thursday, February 22, 10.10 A. M. Chimney fire in three-story wooden tenement block, No. 25 Nicolet lane, owned by S. J. La Flamme, and occupied by nine families. Members of Engine and Ladder No. 6 responded. Used 2 pony extinguishers.

STILL. Thursday, February 22, 5.15 P. M. Chimney fire in cottage house, No. 582 Hanover street, owned and occupied by Frank Buswell. Combination No. 2 responded. Used 1 pony extinguisher.

STILL. Thursday, February 22, 5.58 P. M. Chimney fire in tenement house, No. 5 Barr street, owned by Fred G. Stark, and occupied by several families. Members of Engine No. 2 responded. Used 1 chemical tank.

STILL. Thursday, February 22, 6.35 P. M. Chimney fire in three-story tenement house, No. 153 Cartier street, owned by Pierre Perreault, and occupied by three families. Members of Engine and Ladder No. 6 responded with hose wagon and truck 1. Used 3 pony extinguishers and 50 feet of ladders.

STILL. Thursday, February 22, 6.37 P. M. Chimney fire in four-story brick block, No. 607 Elm street, owned by the heirs of Daniel Connor, and occupied by John Griffin, also, another chimney in the same block, at No. 611 Elm street, occupied by M. Verette. Another chimney near by, at 66 Spruce street, in a two-and-half-story block, owned by George Capadas, and occupied by Christapa Pappas. Squad A responded. Used 1 chemical tank on the three chimneys.

STILL. Thursday, February 22, 6.55 P. M. Chimney fire in dwelling house, No. 29 Notre Dame avenue, owned and occupied by Joseph Girard. Members of Engine No. 2 responded. Used 2 pony extinguishers.

STILL. Thursday, February 22, 7.05 P. M. Chimney fire in four-story wooden tenement house, No. 180 Notre Dame avenue, owned by David

Mahoney, and occupied by three families. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

STILL. Thursday, February 22, 7.15 P. M. Four chimney fires in four-story brick block, No. 1250 Elm street, owned by Smyth and Carpenter, and occupied by several parties. Chemical Engine responded. Used 1 pony and 1 tank.

STILL. Thursday, February 22, 7.17 P. M. Chimney fire in three-and-half-story wooden block, No. 246 Chestnut street, owned by Dr. A. F. Wheat. Hose No. 1 responded.

STILL. Thursday, February 22, 7.30 P. M. Chimney fire in three-story wooden tenement house, No. 169 Cartier street, owned by Donat Coté, and occupied by three families. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

STILL. Thursday, February 22, 7.30 P. M. Chimney fire in dwelling house, No. 246 East High street, owned by J. Warren Batchelder, and occupied by Miss A. Nolan. Members of Hose No. 2 responded. Used 1 pony extinguisher.

STILL. Thursday, February 22, 7.40 P. M. Chimney fire in three-story wooden tenement house, No. 28 Pearl street, in tenement occupied by Patrick Schovink. Chemical Engine responded. No services required.

STILL. Thursday, February 22, 8.26 P. M. Chimney fire in four-story brick block, No. 23 Pearl street, owned by Daniel Ready, and occupied by Fred Blair. Squad A responded. Used 1 chemical tank.

STILL. Thursday, February 22, 9.03 P. M. Chimney fire in cottage house, No. 426 Beacon street, owned and occupied by C. C. Wyman. Members of Engine and Ladder No. 3 responded. Used 1 pony extinguisher.

STILL. Thursday, February 22, 9.10 P. M. Chimney fire in four-story wooden block, No. 385 Union street, owned by S. Feldman, and occupied by Bill Pappas. Squad A responded. Used 1 pony extinguisher.

STILL. Thursday, February 22, 9.25 P. M. Chimney fire in cottage house, No. 611 Silver street, owned by Philip O. Lamothe, and occupied by him and Onis Lavoie. Truck No. 7 responded. Used garden hose, 12 feet of ladders and 2 pony extinguishers.

STILL. Sunday, February 25, 2.35 P. M. Chimney fire in dwelling house, No. 134 Milford street, owned by E. B. Shand, and occupied by Mrs. Janet Young. Members of Engine No. 2 responded with Combination wagon. Used 1 pony extinguisher.

BOX 261. Monday, February 26, 10.56 A. M. Cottage house, No. 363 Pearl street, owned and occupied by Max L. Feldman. Fire started in a closet from some unknown cause. Box pulled by a citizen just as Squad A arrived at the fire in response to a telephone call. Companies responding: Engine 1, Hose 2, Combination 2, Squad A, Truck 2. This fire was extinguished with the contents of 1 chemical tank. Value of building, $5,000; damage, $300; insurance, $4,000; insurance paid, $300. Value of contents, $2,000; damage, $600; insurance, $1,500; insurance paid, $600.

STILL. Monday, February 26, 3.07 P. M. Two-story wooden tenement house, No. 367 Amherst street, owned by Frank Bourassa, and occupied by Mrs. Ellen O'Connell. Cause, rats and matches. Squad A responded. Used 1 pony and 1 tank. Value of building, $4,000; damage, $82; insurance, $1,500; insurance paid, $82. No damage to contents.

Box 72. Tuesday, February 27, 5.27 A. M. Three-story dwelling house, No. 494 Wilson street, owned by F. W. Blood, and occupied by W. F. Walters. Fire started in a closet on the second floor from some unknown cause. Extinguished with 1 pony. Damage slight. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 2, 3, Squad A, Truck 3. Value of building, $1,700; damage, $16; insurance, $1,500; insurance paid, $16. No damage to contents.

STILL. Tuesday, February 27, 4.18 P. M. Chimney fire in two-story wooden tenement house, No. 63 Central street, owned by Harry T. Lord, and occupied by Dell Fesette. Squad A responded. Used 1 chemical tank.

Box 6. Wednesday, February 28, 10.32 P. M. Four-story brick block, No. 31 Hanover street, owned by Harrington and Straw, and occupied, on the second floor, where fire started, by the W. F. Clark Tailoring Co. Cause, gas-stove. Box pulled by Louis Loiselle, of Squad A. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Squad A, Trucks 1, 5. Value of building, $35,000; damage, $623; insurance, $32,966.34; insurance paid, $623. Value of contents, $8,500; damage, $935; insurance, $6,750; insurance paid, $885.

Box 4. Wednesday, February 28, 11.15 P. M. One-story shed in rear of No. 18 Lake avenue, owned by Israel Stratton, and occupied by P. Harrington's Sons as a storehouse. Cause, unknown. Box pulled by Police Officer Adler. Companies responding. Engines 2, 3, 4, 5, Hose 3, Combination 2, Squad A, Trucks 3, 5. Value of building, $1,000; damage, $500; insurance, $350; insurance paid, $350. Value of contents, $500; damage, $200; insurance, $500; insurance paid, $200.

STILL. Wednesday, February 28, 11.25 P. M. During the progress of the above fire another started in the barroom of Thomas H. Mahoney, at 18 Central street, owned by the Bailey heirs of Boston. Dense smoke issued into the tenement above, making it difficult for the occupants to escape. Cause, cigarette. Companies from the fire at Box 4 responded, to wit: Engine 2, Squad A, Truck 5. Value of building, $1,000; damage, $175; insurance, $500; insurance paid, $175. No damage to contents.

STILL. Thursday, February 29, 10.58 A. M. Chimney fire in cottage house, No. 22 Lingard street, owned by William L. Comire, and occupied by Louis Sansoucie. Hose 3 responded. Used 1 pony extinguisher.

STILL. Thursday, February 29, 1.27 P. M. Awning attached to three-story brick block, No. 669 Elm street, owned by the estate of A. D. Gooden, and store occupied by Charles De Moulpied. Damage slight. Squad A responded. Used 1 pony extinguisher.

STILL. Thursday, February 29, 7.32 P. M. Two-story wooden block, No. 25 Amherst street, owned by Mrs. Wm. R. Burleigh, and occupied by Aleksander Stanczak as a grocery store. Cause, excelsior and paper ignited from some unknown cause. Squad A responded. No services required.

STILL. Friday, March 1, 6.10 P. M. Broken electric light wire in Nutfield lane, owned by the Manchester Traction, Light and Power Co. Squad A responded. No services.

STILL. Saturday, March 2, 4.15 P. M. Chimney fire in three-story tenement house, No. 21 Charlestown avenue, owned by Charles A. Brooks, and occupied by J. P. Hicken. Squad A and members of Engine No. 2 responded. Used 2 pony extinguishers and 1 chemical tank.

STILL. Saturday, March 2, 7.45 P. M. Chimney fire in dwelling house, No. 293 Lowell street, owned and occupied by Sadie Carr. Hose No. 2 responded. Used 2 pony extinguishers.

Box 512. Saturday, March 2, 8.50 P. M. An ash barrel in rear of No. 69 Dubuque street. No damage. Box pulled by citizen. Companies responding. Engines 2, 6, Hose 1, Squad A, Truck 6.

STILL. Sunday, March 3, 1.57 P. M. Three-story brick block, No. 1207 Elm street, owned by Dr. E. A. Crossman, and occupied by C. B. Truland, *et al.* Cause, overheated stove. Squad A responded. No services required.

Box 242. Sunday, March 3, 8.12 P. M. Three-story wooden tenement block, No. 494 Wilson street, owned by F. W. Blood, and occupied by M. N. Hitchcock. Cause, "thimble-stopper" out of chimney. No damage. Box pulled by Harold Blood. Companies responding: Engines 3, 4, Hose 2, Combination 2, Squad A, Truck 3.

STILL. Monday, March 4, 11.32 A. M. One-story wooden building, No. 104 Manchester street, owned by Mrs. A. M. Head, and occupied by Charlie Bing, as a Chinese laundry. Cause, smoky stove. Squad A responded. No services required.

Box 215. Wednesday, March 6, 9.08 A. M. Two-and-half-story dwelling house, No. 113 Lincoln street, owned by Louis Levesque, of Nashua, N. H., and occupied by Charles Merrill and Darwin Davis. Cause, sparks from chimney set roof on fire. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 3, 7, Hose 2, 3, Combination 2, Squad A, Trucks 3, 7. Value of building, $1,500; damage, $15; insurance, $1,500; insurance paid $15. No damage to contents.

Box 5. Wednesday, March 6, 12.12 noon. Four-story brick block, No. 786 Elm street, corner of Merrimack street, owned by A. G. Straw and J. F. Brown, and occupied by the Samuel J. Price drug store, and Michael F. Conway's barber shop at No. 9 Merrimack street. Cause, unknown. Box pulled by William Morency. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Value of building, $30,000; damage, $418; insurance, $29,050; insurance paid,

$418. Value of contents, $7,000; damage, $1,388; insurance, $5,000; insurance paid, $1,388.

STILL. Wednesday, March 6, 1.35 P. M. Rekindling of previous fire. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, March 8, 12.10 night. Burning rubbish around an old three, west of the Boston & Maine Railroad tracks, near the W. H. McElwain Co.'s heel shop. Hose No. 3 responded. No services required.

STILL. Saturday, March 9, 7.45 P.M. The big chimney of the West Side Lumber Co., on South Main street. Members of Engine No. 2 responded with Combination wagon. No services required.

Box 8. Monday, March 11, 5.53 P. M. One-story wooden garage, No. 16 Myrtle street, owned by Gordon Woodbury, and occupied by F. J. Read. Cause, "back-firing" of an automobile. Extinguished before arrival of apparatus. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5.

STILL. Tuesday, March 12, 4.58 P. M. Chimney fire in cottage house, No. 342 Amherst street, owned by Wm. Powers, and occupied by Sara Marshall. Squad A responded. Used 1 pony extinguisher.

Box 71. Thursday, March 14, 1.50 A. M. Three-story wooden tenement block, No. 131 Cedar street, owned by Nikolas Toms, and occupied by Josef Fizel. Cause, hot ashes in a wooden box. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Truck 3. Value of building, $4,000; damage, $79; insurance, $3,300; insurance paid, $79. No damage to contents.

STILL. Thursday, March 14, 1.50 P. M. Three-story tenement block, No. 514 Maple street, owned by the estate of C. H. Carpenter of Chichester, N. H., and occupied by several families. Cause, rats and matches. Damage slight. Members of Hose No. 2 responded. Used 1 pony extinguisher.

STILL. Friday, March 15, 7.20 P. M. Chimney fire in three-story wooden block, No. 535 North Main street, owned by F. C. Miville, and occupied by him as a drug store, and tenements. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

Box 21. Saturday, March 16, 1.50 P. M. Two-and-half-story wooden tenement house, No. 177 Central street, owned by N. Werner, and occupied by several families. Cause, lamp. Fire was extinguished by Police Officer Berwin and Timothy Quirk before the arrival of the apparatus. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Squad A, Trucks 1, 3. Used 2 pony extinguishers on rubbish thrown out.

Box 21. Sunday, March 17, 9.02 P. M. Two-and-half-story wooden building, No. 85 Central street, owned by Mrs. Mary Clark, and occupied as a boarding house by John Jonas. Cause, smoking in bed. Damage slight. Used 1 pony extinguisher. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Squad A, Trucks 1, 3.

STILL. Tuesday, March 19, 8.21 A. M. Chimney fire in four-story brick block, No. 177 Manchester street, owned by Dr. Maynard, of Nashua, N. H., and occupied by Griffin and Duguay. Squad A responded. Used 1 pony extinguisher.

STILL. Wednesday, March 20, 6.18 P. M. Chimney fire in cottage house, No. 207 Merrimack street, owned and occupied by Leander F. Pope. Squad A responded. Used 1 pony extinguisher.

STILL. Wednesday, March 20, 7.10 P. M. Chimney fire in cottage house, No. 61 Nashua street, owned and occupied by Alfred Marzer. Hose No. 2 responded. Used 1 pony extinguisher.

STILL. Wednesday, March 20, 7.49 P. M. Ash barrel in rear of cottage house, No. 21 Elm street, owned by Alfred Quimby, and occupied by Oscar Getz. Hose No. 3 responded. No services required.

BOX 7. Thursday, March 21, 6.50 A. M. An ash barrel in rear of a barber shop at No. 63 Manchester street, owned by Damas Dwinnell, and occupied by Joseph Gurmund. Extinguished with chemicals. Damage slight. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Squad A, Trucks 1, 3.

STILL. Thursday, March 21, 3.03 P. M. Chimney fire in two-story wooden tenement block, No. 367 Manchester street, owned by the estate of Isaac Huse, and occupied by C. I. Earl, *et al.* Squad A responded. Used 1 pony extinguisher.

BOX 6. Friday, March 22, 4.30 P. M. One-story wood shed in rear of No. 56 Stark street, owned by the Amoskeag Manufacturing Co., and occupied by David A. Perry, Carl Siocat and Will Hunkins. Cause, hot ashes in a wooden receptacle. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Squad A, Trucks 1, 5. Value of building, $1,000; damage, $75; insurance, "blanket"; insurance paid, $75.

STILL. Tuesday, March 26, 6.10 P. M. Chimney fire in four-story brick block, No. 48 Merrimack street, owned by the heirs of John C. Young, and occupied by Kean, Sheehan & Sullivan, undertakers. Squad A responded. Used 1 pony extinguisher.

STLIL. Tuesday, March 26, 8.30 P. M. Chimney fire in three-story wooden tenement house, No. 159 Wilson street, owned by Matthew Malloy, and occupied by David Mercier. Members of Engine and Ladder No. 7 responded. Used garden hose.

STILL. Tuesday, March 26, 8.46 P. M. Chimney fire in two-story wooden dwelling, No. 103 Manchester street, owned and occupied by Eugene Sigrist. Squad A responded. Used 1 pony extinguisher.

STILL. Wednesday, March 27, 6.30 A. M. Chimney fire in cottage house in a field west of South Elm street owned by Mrs. Simeon H. Brown, and occupied by Edward Leclaire. Hose No. 3 responded. Used 1 pony extinguisher.

BOX 81. Thursday, March 28, 12.24 noon. Three-story wooden block, No. 971 Elm street, owned by Roger G. Sullivan, and occupied by the New Idea Shoe Co., on the ground floor, L. P. Carr, as a lodging

house, upstairs, and Leopold Nobert, as a paint shop, in the rear. Fire started in basement of shoe store from some unknown cause. Box pulled by Capt. A. W. Smith. Companies responding: Engines 1, 4, Chemical, Hose 1, Squad A, Truck 1. Value of building, $4,500; damage, $1.118; insurance, $3,000; insurance paid, $1,118. Value of contents, $16,900; damage, $7,500; insurance, $6,100; insurance paid, $3,426.

STILL. Thursday, March 28, 4.55 P. M. Rekindling of previous fire. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, March 29, 3.30 P. M. Three-story brick block, No. 987 Elm street, owned by the estate of James A. Weston, and occupied by several parties. Cause, old rags in closet. No damage. Squad A responded. No services required.

Box 8. Friday, March 29, 6.55 P. M. Two-and-half-story wooden dwelling, No. 32 Prospect street, owned by Miss Elizabeth Jones, and occupied by Mrs. Mary E. Jones, George E. Olsen, and John C. Leney. Cause, unknown. Box pulled by Wm. W. Cupples, of Engine and Ladder No. 5. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5. Value of building, $3,500; damage, $1,000; insurance, $3,000; insurance paid, $557.96. Value of contents, $700; damage, $469.78; insurance, 600; insurance paid, $469.78.

STILL. Saturday, March 30, 10.51 P. M. Chimney fire in three-story wooden tenement block, No. 51 Laurel street, owned by George Blanchet, and occupied by René Héon. Squad A responded. Used 1 pony extinguisher.

STILL. Sunday, March 31, 12.10 noon. Brush fire on Oak Hill, on land of Amoskeag Manufacturing Co. Squad A responded.

STILL. Sunday, March 31, 2.10 P. M. Brush fire on Lake Shore road, near Massabesic lake, on land of Ben Moody. Squad A responded.

Box 71. Wednesday, April 3, 3.45 P. M. One-story shed in rear of No. 160 Lake avenue, owned and occupied by Loiselle and Hebert as a woodyard office. Cause, cigarette stub. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Truck 3. Value of building, $300; damage, $50; insurance, $200; insurance paid, $50. Value of contents, $200; damage, $30; no insurance.

STILL. Thursday, April 4, 4.30 P. M. Chimney fire in two-and-half-story wooden building, No. 590 Beech street, owned by the First Congregational Society, and occupied by Rev. Thomas Chalmers. Squad A responded. Used garden hose.

Box 6. Thursday, April 4, 6.42 P. M. Three-story brick building, No. 884 Elm street, owned by the New Hampshire Fire Insurance Co., and occupied by the Ridgely Lodge No. 74, I. O. O. F. Cause, lace curtain in contact with flame of gas-jet. Extinguished before arrival of apparatus. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Squad A, Trucks 1, 5.

STILL. Friday, April 5, 1.51 P. M. City dump on Sagamore street. Members of Engine and Ladder No. 5 responded with hose wagon.

STILL. Friday, April 5, 2.10 P. M. Grass fire on Elm street, near Clarke street, on land owned by Josiah Carpenter. Members of Engine and Ladder No. 5 responded with hose wagon. Used 2 pony extinguishers.

STILL. Saturday, April 6, 9.00 A. M. False alarm caused by an unadjusted thermostat in the Cohas shop of the W. H. McElwain Co. Hose No. 3 responded.

BOX 4. Sunday, April 7, 1.03 P. M. Three-story wooden tenement block, No. 25 Spruce street, owned by Gima Bros, and occupied by George Adamacis, *et al.* Cause, candle set fire to a lace curtain. Damage, slight. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. No services required.

BOX 5. Tuesday, April 9, 5.28 A. M. Four-story brick block, No. 36 Merrimack street, owned by Varick and Elliott, and occupied, on the ground floor where fire originated, by Bill Ghiatis, as a tailor shop. Cause, gas left burning in large flat-iron over night. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Value of building, $44,000; damage, $22; insurance, $44,000; insurance paid, $22. No damage to contents.

STILL. Tuesday, April 9, 8.19 A. M. False alarm from an unadjusted thermostat in the Cohas shop of the W. H. McElwain Co. Hose No. 3 responded.

STILL. Tuesday, April 9, 2.52 P. M. Grass fire at the corner of Baker street and Brown avenue, on land owned by the estate of Waterman Smith. Burned over about one acre. Hose No. 3 responded.

STILL. Thursday, April 11, 5.42 P. M. Brush fire on North Adams street, on land owned by the Griffin heirs. Members of Engine and Ladder No. 5 responded with hose wagon. Used 2 pony extinguishers.

STILL. Friday, April 12, 5.10 P. M. Brush fire on South Beech street, on land owned by the estate of Cassius M. Webster. Burned over about three fourths of an acre. Hose No. 3 responded.

BOX 51. Saturday, April 13, 1.25 A. M. Two-story wooden building, No. 14 Walker street, owned and occupied by Wm. F. Schönland as a sausage factory. Cause, defective "smoke-oven." Extinguished with chemicals. Box pulled by Police Officer Jeffrey Shea. Companies responding, Engines 2, 6, Squad A, Truck 6. Value of building, $3,000; damage, $75; insurance, $2,000; insurance paid, $75. No damage to contents.

STILL. Saturday, April 13, 1.55 P. M. Brush fire in Amoskeag on land of the Amoskeag Manufacturing Co. Squad A responded.

BOX 71. Saturday, April 13, 4.31 P. M. Slight fire on roof of wooden tenement building, No. 172 Chestnut street, owned by Israel Resnick. Cause, sparks from chimney. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Truck 3.

STILL. Saturday, April 13, 7.45 P. M, Brush fire on Coolidge avenue, on land of Amoskeag Manufacturing Co. Members of Engine and Ladder No. 6 responded.

Box 72. Sunday, April 14, 12.48 noon. Two-and-half-story wooden block, No. 336 Lake avenue, owned by W. W. Thompson, and occupied by Pierre Tousignant, *et al.* Cause, sparks from chimney set bed clothing on fire. Damage, slight. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 2, 3, Squad A, Truck 3.

Still. Tuesday, April 16, 12.37 noon. Chimney fire in cottage house, No. 401 Laurel street, owned and occupied by George Totman. Combination No. 2 and Squad A responded. Used 2 ponies and 1 chemical tank.

Still. Tuesday, April 16, 2.21 p. m. Grass and brush fire on Kennedy street and Brown avenue, on land owned by the W. H. McElwain Co. Cause, junk-dealer burning rubbish. Hose No. 3 responded.

Still. Thursday, April 18, 2.08 p. m. Chimney fire in two-story wooden tenement block, No. 532 Chestnut street, owned by Mrs. Ella J. Boyd, and occupied by Bridget Lynch. Squad A responded. Used 1 chemical tank.

Still. Thursday, April 18, 5.21 p. m. Two-story wooden tenement block, No. 78 Bridge street, owned by Thomas Eagan, and occupied by Elious Boisvert. Cause, smoking chimney. Squad A responded. No services required.

Box 4. Friday, April 19, 5.40 p. m. One-story wooden building, Nos. 82-84 West Central street, owned by Daniel S. Kimball, and occupied by the Kimball Carriage Co. as a storehouse, and by E. H. Mugridge, upholsterer. Cause, unknown. Box pulled by Capt. A. W. Smith. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Value of building, $2,000, damage, $724; insurance, $1,000; insurance paid, $724. Value of contents, $3,000; damage, $1,900; insurance, $2,000; insurance paid, $1,576.

Still. Sunday, April 21, 12.22 noon. Chimney fire in two-story wooden tenement block, No. 452 Chestnut street, owned by the estate of S. W. Parsons, and occupied by Nazaire Bourque. Squad A responded. Used 1 pony extinguisher.

Still. Tuesday, April 23, 1.36 p. m. Chimney fire in cottage house, No. 274 Beech street, owned and occupied by Catherine Linehan. Squad A responded. Used 1 pony extinguisher.

Still. Tuesday, April 23, 8.31 p. m. Chimney fire in two-story tenement block, No. 33 West Merrimack street, owned by the Amoskeag Manufacturing Co., and occupied by Hanson R. Armstrong. Squad A responded. Used 1 chemical tank.

Still. Wednesday, April 24, 10.15 a. m. Brush fire on Boynton street, on land owned by the Kennard heirs. Members of Engine No 2 responded.

Still. Wednesday, April 24, 11.38 a. m. Brush fire on River road (west side of Merrimack river), on land owned by Perry H. Dow. Squad A responded.

Still. Wednesday, April 24, 11.45 a. m. Brush fire on Bald Hill road, on land owned by Arthur H. Hale, and occupied by Carl Johnson. Combination No. 2 responded.

Box 512. Thursday, April 25, 9.30 A. M. Three-story wooden tenement house, Nos. 176-178 North Main street, owned by Mrs. Daniel Price, and occupied by Benjamin Price, Louis Rains and Elmer Leggett. Cause, hot ashes in a wooden box. Box pulled by citizen. Companies responding: Engines 2, 6, Hose 1, Squad A, Truck 6. Value of building, $4,500; damage, $490; insurance, $3,000; insurance paid, $490. Value of contents, $2,000; damage, $160; insurance, $1,400; insurance paid, $160.

STILL. Thursday, April 25, 10.10 A. M. Chimney fire in wooden tenement house, No. 56 South Main street, owned by Mrs. F. E. Ingalls, and occupied by several families. Members of Engine No. 2 responded. Used 2 pony extinguishers.

Box 21. Thursday, April 25, 1.47 P. M. Barn in rear of No. 172 Central street, owned by Michael J. Collins of Worcester, Mass., and occupied by Costas Trannaas. Cause, sparks from a nearby chimney set fire to a few shingles on the roof. Extinguished with chemicals. Damage slight. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Squad A, Trucks 1, 3.

Box 3. Friday, April 26, 11.20 A. M. Two-story wooden box factory, corner of Pine and Valley streets, owned and occupied by Fellows & Son. Cause, sparks. Box pulled by citizen. Companies responding: Engines 4, 7, Chemical, Hose 1, 3, Squad A, Trucks 1, 7.

STILL. Friday, April 26, 4.50 P. M. Chimney fire in two-story wooden tenement house, No. 226 Shasta street, owned by Timothy McKenna, and occupied by James Bagwell. Hose No. 3 and Truck No. 7 responded. Used 4 pony extinguishers, 1 chemical tank and 84 feet of ladders.

STILL. Saturday, April 27, 11.59 noon. Chimney fire in four-story brick block, No. 8 Dean street, owned by A. B. Carpenter, and occupied by Mitchell Marquis, *et al.* Squad A responded. Used 1 chemical tank.

STILL. Saturday, April 27, 7.31 P. M. Chimney fire in three-and-half story brick block, No. 91 Manchester street, owned by John J. Collins, and occupied by Joseph Quirin. Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, April 24, 8.22 P. M. Grass fire on North River road, on land owned and occupied by the State Industrial School. Cause, sparks from Boston & Maine locomotives. Squad A responded. Fire out on their arrival.

Box 4. Saturday, April 27, 9.05 P. M. A small barn in rear of No. 65 Spruce street, owned by Mr. —— Sylvester, and occupied by Christos Thomas, who lost a horse. Cause, unknown. Box pulled by Metery Saba. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Value of building, $800; damage, $459; insurance, $600; insurance paid, $450. Value of contents, $500; damage, $300; no insurance.

STILL. Saturday, April 27, 9.50 P. M. Some clothes on a line in rear of block at No. 350 Pine street, owned by Mrs. W. M. Kendall, and

occupied by Nelson Faucher. Squad A responded. No services required.

STILL. Saturday, April 27, 10.40 P. M. Brush fire on North Union street, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

STILL. Sunday, April 28, 7.30 A. M. Brush fire on North Union street, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

Box 71. Sunday, April 28, 8.36 A. M. Sparks from a nearby chimney set fire to shingles on roof of a barn in rear of No. 64 Cedar street. Damage slight. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

STILL. Sunday, April 28, 9.15 A. M. A small coal shed at the heel shop of the W. H. McElwain Co. in South Manchester. Hose No. 3 and Squad A responded.

STILL. Sunday, April 28, 10.20 A. M. Grass and brush fire on South Beech street, on land owned by the estate of Cassius M. Webster. Hose No. 3 responded.

STILL. Sunday, April 28, 10.38 A. M. Grass fire on Mast street, on land owned by Mrs. Mabel Bickford. Members of Engine No. 2 responded.

STILL. Sunday, April 28, 10.57 A. M. Chimney fire in cottage house, No. 156 Brook street, owned by the heirs of George Grenier, and occupied by L. P. Chandonette. Squad A responded. Used 1 pony extinguisher.

STILL. Sunday, April 28, 11.22 A. M. Brush fire on North Union street, on land of the Amoskeag Manufacturing Co. Members of Engine and Ladder No. 5 responded. Used 14 pony extinguishers.

STILL. Sunday, April 28, 11.25 A. M. Brush fire on South Beech street, on land owned by the estate of Joseph Brown. Squad A responded.

STILL. Sunday, April 28, 11.30 A. M. Brush fire on Pinard street, on land owned by Edmond Pinard. Members of Engine No. 2 responded with Combination wagon. Used 6 pony extinguishers, 2 chemical tanks, and laid 1,050 feet of hose from hydrant.

STILL. Sunday, April 28, 11.50 A. M. Chimney fire in two-and-half-story dwelling house, No. 416 Beech street, owned by C. H. Durgin, and occupied by Annie Coté. Chemical Engine responded. Used 1 pony and 1 tank.

STILL. Sunday, April 28, 1.15 P. M. Brush fire corner of Harrison and Linden streets, on land of the Amoskeag Manufacturing Co. Combination No. 2 responded.

2—2—2. Sunday, April 28, 1.28 P. M. Brush fire on South Beech street got beyond control of Hose No. 3, so sent detail from Engine and Ladder No. 7. At the same time sent Engine No. 1 to brush fire near the Amoskeag Co.'s reservoir.

STILL. Sunday, April 28, 1.42 P. M. Chimney fire in four-story brick block, No. 599 Elm street, owned by the heirs of Daniel Connor. Chemical Engine responded. Used 1 chemical tank.

STILL. Sunday, April 28, 2.40 P. M. Grass fire near the lower weir of the Amoskeag Mills canal. Hose No. 1 responded.

STILL. Sunday, April 28, 5.00 P. M. Needless call for a small brush fire on Hooksett road, in Hooksett. Members of Engine and Ladder No. 5 responded.

Box 71. Sunday, April 28, 6.35 P. M. A needless alarm for an ash-box fire in rear of tenement house, No. 265 Pine street, owned by Patrick Healy. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Truck 1, 3.

STILL. Monday, April 29, 2.27 P. M. Four-story brick block, No. 101 Hanover street, owned by George F. Bosher, and occupied by Jesse L. Perkins. Cause, lace curtain blew into gas flame. Squad A responded. No services required.

STILL. Tuesday, April 30, 6.10 P. M. Chimney fire in dwelling house, No. 60 Weston street, owned by Wilson Baker, and occupied by F. W. Evarts. Combination No. 2 responded. Used 2 pony extinguishers.

STILL. Wednesday, May 1, 9.50 A. M. Chimney fire in dwelling house No. 79 Winter street, owned and occupied by Stephen Ruiter. Members of Engine No. 2 responded. Used 1 pony extinguisher.

STILL. Wednesday, May 1, 12.30 noon. Three-story wooden tenement block, No. 14 Auburn street, owned by the Manchester Realty Co., and occupied by Wm. Donegan. Cause, rubbish in cellar. Squad A responded. No services required.

STILL. Wednesday, May 1, 3.45 P. M. Brush fire on Mammoth road on land owned by the Annis Flour and Grain Co. Squad A responded.

Box 21. Wednesday, May 1, 5.36 P. M.; second alarm, 5.39 P. M. Chimney fire in two-and-half-story wooden tenement block, No. 302 Pine street. The apparatus had hardly reached the fire when some "crazy-head" pulled in the second alarm. Companies responding: Engines 1, 2, 3, 4, Chemical, Hose 1, 2, Squad A, Trucks 1, 3, 5. Used 1 pony extinguisher and 35 feet of ladders.

STILL. Thursday, May 2, 1.38 P. M. Brush fire on Mitchell street, on land owned by George Harris and the estate of Waterman Smith. Hose No. 3 responded.

STILL. Thursday, May 2, 8.15 P. M. Brush fire on North Adams street, on land owned by Charles W. Warren. Members of Engine and Ladder No. 5 responded.

Box 71. Friday, May 3, 1.18 A. M. Four-story brick block, No. 182 Chestnut street, owned by Israel Resnick, and occupied by several families. Cause, rats and matches. Extinguished with chemicals. Box pulled by a police officer. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Value of building, $20,000; damage, $195; insurance, $13,000; insurance paid, $195. No damage to contents.

STILL. Friday, May 3, 12.05 noon. Brush fire on Montgomery street, on land owned by the Amoskeag Manufacturing Co. Members of Engine No. 2 responded. Used 2 pony extinguishers.

Box 28. Friday, May 3, 3.38 P. M. Cottage house, No. 513 Merrimack street, owned and occupied by Frank B. French. Cause, hot ashes. Box pulled by citizen. Companies responding: Engine 3, Combination 2, Squad A, Truck 3. Value of building, $1,800; damage, $670; insurance, $1,500; insurance paid, $670. Value of contents, $800; damage, $200; no insurance.

STILL. Friday, May 3, 4.15 P. M. Brush fire in Hooksett, near the city line. Squad A and delegation from Engine and Ladder No. 5 responded. Used 3 pony extinguishers.

STILL. Friday, May 3, 4.20 P. M. Carriage shed and barn, at No. 83 Myrtle street, occupied by E. H. Holmes, truckman. Cause, smoky stove. Chemical Engine responded. No services required.

STILL. Friday, May 3, 5.45 P. M. Barn in rear of No. 46 Arlington street, owned and occupied by the heirs of Samuel Thompson. Cause, boys playing with matches. Hose No. 2 responded.

STILL. Saturday, May 4, 8.15 A. M. Chimney fire in three-story wooden tenement block, No. 166 Lake avenue, owned by R. W. Blodgett, and occupied by Albert Borden. Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, May 4, 10.35 A. M. Chimney fire in two-story wooden tenement block, No. 101 McDuffie street, owned by Platts Bros., and occupied by Joseph Blanchard. Squad A responded. Used 2 pony extinguishers.

Box 71. Saturday, May 4, 11.19 A. M. Two-and-half-story wooden tenement block, No. 102 East Spruce street, owned by the Ronotern-Kamber Co., and occupied by several families. Cause, sparks from chimney. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Value of building, $6,000; damage, $280; insurance, $5,000; insurance paid, $280. No damage to contents.

STILL. Saturday, May 4, 12.15 noon. Brush fire on North Adams and Union streets, on land owned by Daniel S. Kimball, *et al.* Members of Engine and Ladder No. 5 responded. Used 4 pony extinguishers and laid 1,050 feet of hose from a hydrant.

STILL. Saturday, May 4, 8.15 P. M. Brush fire on Huntress street, on land owned by the heirs of H. H. Huntress. Members of Engine No. 2 responded.

Box 82. Saturday, May 4, 11.01 P. M. A small stable in rear of No. 21 Birch street, occupied by Joseph Pilawski. Cause, cigar stub. Extinguished with chemicals. Damage slight. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5.

STILL. Sunday, May 5, 11.35 A. M. Grass and brush fire on Mitchell

street and Calef road, on land owned by the estate of Waterman Smith. Hose No. 3 responded.

Box 26. Sunday, May 5, 2.10 P. M. A small "outhouse," in rear of No. 40 Arlington street, owned by Mrs. Flora B. Cate, and occupied by Anton Markson. Cause, children playing with matches. Box pulled by citizen. Companies responding: Engines 1, 3, Hose 2, Combination 2, Truck 3. Value of building, $1,200; damage, $50.60; insurance, $1,000; insurance paid, $50.60. Value of contents, $500; damage, $37.50; insurance, $200; insurance paid, $37.50.

STILL. Sunday, May 5, 3.30 P. M. Brush fire on Lake Shore road, on land owned by the Manchester Water Works. Squad A responded.

STILL. Sunday, May 5, 4.00 P. M. Grass and brush fire, near Rock Rimmon, on land owned by the Amoskeag Manufacturing Co. Members of Engine and Ladder No. 6 responded.

Box 82. Monday, May 6, 6.37 A. M. Six-story brick block, Nos. 1043 and 1045 Elm street, owned by the Amoskeag Realty Co., and occupied by several parties as stores, offices, and lodging rooms. Fire started in boiler room from some unknown cause. Smoke damaged the contents of the Amoskeag Clothing store and Gazailie & Co.'s store to a considerable amount. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks, 1, 5. Value of building, $75,000; damage, $400; insurance, $60,000; insurance paid, $400. Value of contents, $9,000; damage, $1,100; insurance, $6,000; insurance paid, $1,100.

Box 4. Monday, May 6, 8.59 P. M. Two-and-half-story wooden tenement and store building, No. 47 Lake avenue, owned by the estate of P. Harrington, and occupied by M. Rosenberg. Cause, unknown. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Value of building, $2,000; damage, $171; insurance, $1,800; insurance paid, $171. Value of contents, $1,000; damage, $194; insurance, $700; insurance paid, $194.

STILL. Wednesday, May 8, 8.42 A. M. Slight fire in a bed in a three-and-half-story wooden tenement block, No. 150 Manchester street, owned by J. Resnick, and occupied by six families. Cause, smoking in bed. Chemical Engine responded. No services required.

STILL. Saturday, May 11, 1.10 P. M. Chimney fire in dwelling house, No. 108 Arlington street, owned by Mrs. —— Cate, and occupied by Alexander Soderland. Combination No. 2 responded. Used 1 pony extinguisher.

STILL. Saturday, May 11, 2.04 P. M. Chimney fire in two-and-half-story wooden dwelling, No. 862 Union street, owned by Alice and Annie Walsh, and occupied by John Jennings. Members of Engine and Ladder No. 5 responded. Used 1 pony extinguisher.

Box 214. Saturday, May 11, 8.59 P. M. Three-story wooden tenement block, No. 210 Wilson street, owned by Henri Goyette, and occupied by George Sanders, *et al.* Fire started in Sanders' tenement from

a defective chimney. Box pulled by citizen. Companies responding: Engines 3, 7, Hose 2, 3, Combination 2, Squad A, Trucks 3, 7. Value of building, $9,000; damage, $1,300; insurance, $7,000; insurance paid, $1,020. Value of contents, $1,000; damage, $225; insurance, $750; insurance paid, $225.

General Alarm. Sunday, May 12: Box 3, 4.25 p. m.; Box 45, 4.33 p. m.; Box 45, 4.50 p. m. One-story brick round house, in the Railroad yard, owned by the Boston & Maine Railroad. This building is located so far from a sufficient water supply that it was necessary to ring in a general alarm to furnish enough hose for efficient service. Cause, "back-draught" from locomotive. Boxes pulled in the following order,—3, by F. W. Cate; 45, by Tom L. Kellogg; 45, by Clarence D. Palmer. Companies responding: Engines 1, 2, 3, 4, 5, 6, 7, T. Jefferson Coolidge (from Amoskeag Mills department), Chemical, Hose 1, 2, 3, East Manchester Independent Hose Co., Combination 2, Squad A, Trucks 1, 3, 6, 7. On duty 6¼ hours. Value of building, $22,500; damage, $6,910; insurance, $10,000; insurance paid, $6,910. Value of contents, $65,642.36; damage, $7,347.28; insurance, $36,900; insurance paid, $7,347.28.

Still. Sunday, May 12, 8.57 p. m. Rekindling of the previous fire. Squad A responded. Used 1 pony extinguisher.

Still. Monday, May 13, 2.35 a. m. Rekindling of the roundhouse fire of yesterday afternoon. Squad A responded. Used 1 pony extinguisher.

Still. Tuesday, May 14, 7.53 a. m. Chimney fire in cottage house, No. 538 Central street, owned by Bessie Callahan, and occupied by James Wilkinson. Squad A responded. Used 1 pony extinguisher.

Still. Tuesday, May 14, 12.15 noon. Chimney fire in two-and-half-story dwelling, No. 237 Amory street, owned by Odule Hallé, and occupied by him, *et al.* Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

Still. Wednesday, May 15, 3.48 p. m. A chicken brooder, owned by N. O. Garland, on North Union street. Cause, lamp explosion. Squad A and members of Engine and Ladder No. 5 responded. No services required.

Still. Wednesday, May 15, 8.58 p. m. False alarm caused by an unadjusted thermostat in the Cohas shop of the W. H. McElwain Co., on Willow street. Hose No. 3 responded.

Still. Thursday, May 16, 11.02 a. m. Three-story wooden tenement block, No. 33 Elm stret, owned by Mrs. Emily J. Welch, and occupied by Richard Parshley. Cause, pouring kerosene into stove. Mrs. Parshley was severely burned about the hands and arms. Hose No. 3 responded. Value of building, $5,000; damage, $16; insurance, $4,000; insurance paid, $16. Value of contents, $300; damage, $10. No insurance.

Still. Saturday, May 18, 8.55 a. m. Chimney fire in two-and-half-story wooden dwelling, No. 235 Ash street, owned by John J. Golding,

and occupied by Stewart McEwen. Squad A responded. Used 1 pony extinguisher.

Box 71. Saturday, May 18, 7.56 P. M. Cottage house, No. 175 Central street, owned by Mrs. Mary Hayes, and occupied by H. Adler. Cause, overturning of a lamp. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Value of building, $750; damage, $165; insurance, $500; insurance paid, $165. Value of contents, $300; damage, $179; insurance, $300; insurance paid $179.

STILL. Sunday, May 19, 1.30 P. M. An awning at the store of James A. Scully, at the corner of Lowell and Elm streets. Squad A responded. Used 1 pony extinguisher.

STILL. Sunday, May 19, 6.50 P. M. Chimney fire in cottage house, No. 927 Union street, owned by Mrs. Sarah Beebe, and occupied by Frank E. Flint. Members of Engine and Ladder No. 5 responded. Used 1 pony extinguisher.

Box 324. Monday, May 20, 12.06 night. A hencoop, on Congress street, south of Amory street, owned by Ferdina Fortier. Cause, oil-stove in a brooder. Damage slight. Box pulled by a citizen. Companies responding: Engines 2, 6, Hose 1, Squad A, Truck 6.

STILL. Monday, May 20, 6.55 A. M. Brush fire on Glenwood avenue, on land owned by the estate of A. J. Lane. Members of Engine No. 2 responded with Combination wagon. Used 1 pony extinguisher.

Box 21. Tuesday, May 21, 4.10 A. M. Three-story wooden tenement block, No. 193 Merrimack street, owned by George Marty, and occupied by several Greek families. Cause, unknown. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Squad A, Trucks 1, 3. Value of building, $7,000; damage, $450; insurance, $4,000; insurance paid, $450. Value of contents, $300; damage, $50; no insurance.

STILL. Tuesday, May 21, 8.40 P. M. Chimney fire in cottage, No. 388 Auburn street, owned by John D. Woodbury. Members of Engine and Ladder No. 3 responded. No services.

STILL. Tuesday, May 21, 11.23 P. M. Four-story brick block, No. 827 Elm street, owned by Mae E. Straw, and occupied by M. C. Brice. Cause, smoking chimney. Squad A responded.

STILL. Wednesday, May 22, 12.55 noon. Chimney fire in a wooden two-tenement house, No. 389 Belmont street, owned by Joseph Quirin, and occupied by Carl S. Youngquist. Members of Engine and Ladder No. 3 responded. Used 1 pony extinguisher.

STILL. Saturday, May 25, 5.52 P. M. False alarm, caused by "crossed" wires of the Automatic Fire-Alarm system, in three-story brick block, owned and occupied by the New Hampshire Fire Insurance Co. Squad A responded.

Box 81. Sunday, May 26, 11.55 P. M. Four-story brick block, Nos. 986-990 Elm street, owned by John P. Cronan, and Mrs. J. L. Campbell, and occupied by the New England Butter Co., A. T. Wathen, *et al.* Fire

started in basement of the butter store from some unknown cause. Box pulled by Tom L. Kellogg. Companies responding: Engines 1, 4, Chemical, Hose 1, Squad A, Truck 1. Value of building, $42,000; damage, $918; insurance, $40,000; insurance paid, $918. Value of contents, $10,500; damage, $3,800; insurance, $7,750; insurance paid, $3,600.

STILL. Tuesday, May 28, 9.16 A. M. Four-story wooden block, No. 60 Pearl street, owned by Charles C. Hayes, and occupied by Joseph Bourgeois. Cause, paper in "bulk-head." Squad A responded. No services required.

STILL. Tuesday, May 28, 1.50 P. M. Brush fire on Calef road, opposite Pine Grove cemetery, on land owned by the American Land Co. Squad A and Hose No. 3 responded.

STILL. Sunday, June 2, 12.20 noon. Grass and brush fire on Hillside avenue, on land owned by the estate of George W. Riddle, and used as a playground. Members of Engine No. 2 responded with Combination wagon. Used 3 pony extinguishers and shovels.

STILL. Sunday, June 2, 4.05 P. M. Slight fire on McGregor bridge, over the Merrimack river. Cause, unknown. Squad A responded. Used 1 pony extinguisher.

STILL. Sunday, June 2, 8.45 P. M. An electric car, on Elm street, owned by the Manchester Street Railway. Cause, "crossed" wires. Squad A responded. No services required.

STILL. Monday, June 3, 8.41 P. M. An old tumble-down shed in rear of No. 476 Laurel street, owned by Daniel Callahan. Squad A and members of Engine and Ladder No. 3, with hose wagon, responded. Used 2 pony extinguishers and 1 chemical tank, and laid 600 feet of hose from a hydrant.

BOX 71. Tuesday, June 4, 4.34 A. M. An unoccupied cottage house at No. 140 East Spruce street, owned by A. Poehlman. Cause, incendiary. Fire was set in a small closet, but did not do much damage. Box pulled by a police officer. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

STILL. Wednseday, June 5, 12.51 night. Fire on roof of a two-story block, No. 494 Chestnut street, owned by Mary Dowling, and occupied by C. M. Brownell. Squad A responded. Used 1 chemical tank.

BOX 8. Wednesday, June 5, 2.25 P. M. False alarm pulled by some unknown person. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5.

STILL. Wednesday, June 5, 3.20 P. M. Four-story wooden building, No. 14 Cedar street, owned by George Marty, and occupied by A. C. Squires' laundry. Slight fire started from some unknown cause. Squad A responded. No services required.

STILL. Thursday, June 6, 1.46 A. M. Awning at the store of James A. Scully, at the corner of Lowell and Elm streets. Squad A responded. Used 1 pony extinguisher.

STILL. Thursday, June 6, 8.40 A. M. Chimney fire in two-and-half-story wooden tenement block, No. 396 Notre Dame avenue, owned by

Patrick Flemming and occupied by Eli Provencher, *et al.* Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

STILL. Thursday, June 6. 11.19 A. M. Three-story brick block, No. 942 Elm street, owned by Brown, Burpee and Hill, and occupied by Brown and Burpee, Opticians, *et al.* Fire in stock room among some old papers, etc. Cause, unknown. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, June 7, 9.45 A. M. An ash-chute attached to three-story brick building, corner of Granite and Main streets, owned by Willis B. Kendall, and occupied by stores, offices and tenements. Cause, hot ashes. Members of Engine No. 2 responded. Used 2 pony extinguishers.

STILL. Friday, June 7, 8.30 P. M. Cottage house, No. 441 Central street, owned and occupied by Oscar Silber. Cause, snapping match ignited portiere, doing but little damage. Members of Engine and Ladder No. 3 responded. Used 1 pony extinguisher.

STILL. Saturday, June 8, 3.47 P. M. Brush fire on Lake Shore road, on land owned by the Luther Proctor estate. Ten cords of wood destroyed. Damage $30; no insurance. Squad A responded. Used 5 pony extinguishers.

STILL. Saturday, June 8, 9.25 P. M. Some excelsior in a barn, in rear of No. 40 Auburn street, owned and occupied by Jacob Bith. Squad A responded. Used 1 pony extinguisher.

BOX 21. Sunday, June 9, 2.37 A. M. Two-story wooden block, Nos. 239-243-245 Chestnut street, owned by Dennis J. Dowd, and occupied by Misses L. and S. Rosenblum, as a millinery and dry-goods store. Cause, gas flat-iron left burning. Box pulled by Police Officer Jennings. Companies responding: Engines 1, 3, Chemical, Hose 1, Squad A, Trucks 1, 3. Value of building, $5,000; damage, $1,150; insurance, $2,300; insurance paid, $1,150. Value of contents, $5,000; damage, $1,500; insurance, $2,000; insurance paid, $1,500.

STILL. Sunday, June 9, 2.05 P. M. One-story wooden building, No. 394½ East Spruce street, owned and occupied by Timothy F. Landregan, as a plumbing shop. Rubbish in basement ignited from some unknown cause. Squad A and members of Engine and Ladder No. 3 responded. Used 2 pony extinguishers. No damage.

STILL. Sunday, June 9, 2.26 P. M. Brush fire at Mosquito pond, on land owned by Milton C. Paige. Squad A responded.

STILL. Tuesday, June 11, 12.45 noon. Three-story wooden tenement block, No. 52 Church street, owned by Patrick Kearns, and occupied by Joseph Garda. Slight fire on roof. Squad A responded. Extinguished before their arrival.

STILL. Tuesday, June 11, 9.15 P. M. False alarm. Word was received of a fire near a barn on Turner street, owned and occupied by the J. H. Mendell Co. Members of Engine No. 2 responded, but could find no fire.

STILL. Wednesday, June 12, 11.02 A. M. Grass and brush fire beside the tracks of the Portsmouth branch of the Boston & Maine Railroad, near the Derryfield shoe factory. Cause, sparks from locomotive.

STILL. Wednesday, June 12, 1.17 P. M. An unoccupied two-story woodshed at No. 189 Hanover street, owned by James Perkins. Slight fire extinguished before the arrival of Squad A, which responded.

Box 71. Wednesday, June 12, 2.44 P. M. One-story shed in rear of No. 174 Cedar street, owned and occupied by Patrick Kelley. Cause, children playing with matches. Extinguished with chemicals. Damage slight. Box pulled by a citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

Box 215. Wednesday, June 12, 7.31 P. M. Three-story wooden tenement block, Nos. 143-145 Maple street, owned by George Bouboulica, and occupied (in basement where fire originated) by George Doucacas as coffee rooms. Cause, unknown. Extinguished with chemicals. Box pulled by Henry Nuttle. Companies responding, Engines 3, 7, Hose 2, 3, Combination 2, Squad A, Trucks 3, 7. Value of building, $7,000; damage, $400; insurance, $5,000; insurance paid, $400. No damage to contents.

STILL. Wednesday, June 12, 11.10 P. M. Grass and rubbish fire in a lumber yard on North Main street, owned and occupied by the Amoskeag Manufacturing Co. Members of Engine No. 2 responded.

STILL. Thursday, June 13, 1.02 P. M. Plank walk on McGregor Bridge, over the Merrimack river, owned by the city of Manchester. Cause, cigar stub. Extinguished before the arrival of Squad A, which responded.

STILL. Thursday, June 13, 1.21 P. M. Grass and brush fire on North River road, near Martin's Ferry, on land owned by Dr. George A. Campbell. Cause, sparks from Boston & Maine locomotive. Extinguished before the arrival of Squad A, which responded.

Box 21. Thursday, June 13, 5.09 P. M. Three-story wooden tenement block, No. 320 Pine street, owned by the heirs of A. D. Burgess. Cause, juvenile incendiary. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Squad A, Trucks 1, 3. Value of building, $7,000; damage, $300; insurance, $7,000; insurance paid, $300. No damage to contents.

Box 6. Saturday, June 15, 12.15 night. Four-story brick block, No. 18 Hanover street, owned by Harrington and Parker, and occupied by Healy Bros., Tailors. Cause, unknown. Box pulled by A. L. Brouillette. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Squad A, Trucks 1, 5. Value of building, $90,000; damage, $450; insurance, $40,000; insurance paid, $450. Value of contents, $11,000; damage, $3,600; insurance, $6,000; insurance paid, $3,600.

STILL. Saturday, June 15, 3.52 A. M. Four-story brick block, No. 599 Elm street, owned by the estate of Daniel Connor, and occupied by Kate Harrington. Fire in a bureau started from some unknown cause. Squad A responded. Used 1 chemical tank.

STILL. Saturday, June 15, 7.36 P. M. Paper in back street in rear of No. 53 Lake avenue. Squad A responded. No services required.

STILL. Saturday, June 15, 8.35 P. M. Brush fire at Pleasant View park, on Calef road and South Beech street, owned by the American Land Co. Hose 3 and Squad A responded.

STILL. Wednesday, June 19, 1.31 P. M. Grass fire on Smyth road, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

BOX 4. Wednesday, June 19, 6.11 P. M. Two-story wooden dwelling, No. 20 Auburn street, owned by Foley and O'Malley, and occupied by Davis Nassif. Cause, slight fire in box of clothing, which was thrown out through a window without further damage. Box pulled by citizen. Companies responding: Engines 3, 4, Hose 1, 3, Squad A, Trucks 1, 3.

STILL. Thursday, June 20, 8.38 A. M. Electric car No. 67, owned by the Manchester Street Railway, on North Main street, near headquarters of Engine No. 2. Cause, "short circuit." Members of Engine No. 2 responded. Used 1 pony extinguisher.

STILL. Thursday, June 20, 2.15 P. M. Brush fire on the Pulpit road, "just over the line," in Bedford, N. H. Squad A responded. Under control upon their arrival.

BOX 711. Thursday, June 20, 4.58 P. M. Kindlings in cellar of house, No. 168 Valley street, occupied by Michael Langon. Extinguished with a few pails of water before arrival of department. No damage. Box pulled by citizen. Companies responding: Engines 1, 7, Hose 3, Squad A, Truck 7.

STILL. Thursday, June 20, 7.19 P. M. Two-story wooden dwelling, No. 593 Beech street, owned and occupied by A. D. Richards. Cause, sparks on roof. Squad A responded. Used 1 chemical tank. Value of building, $3,000; damage, $16.43; insurance, $3,000; insurance paid, $16.43. Value of contents, $1,000; damage, $24; insurance, $1,000; insurance paid, $24.

STILL. Friday, June 21, 5.45 A. M. Chimney fire in three-story wooden dwelling, No. 356 Rimmon street, owned and occupied by James Minnigan. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

STILL. Friday, June 21, 12.21 noon. Brush fire on Front street, Amoskeag, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

STILL. Saturday, June 22, 12.56 noon. An ash-box in rear of No. 60 Pearl street. Squad A responded. No services required.

BOX 71. Sunday, June 23, 8.02 A. M. Three-and-half-story wooden tenement house, No. 174 Lake avenue, owned by Byron Blodgett, and occupied by Patrick Reynolds, *et al.* Cause, sparks on roof. Damage slight. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

STILL. Monday, June 24, 9.55 A. M. An ash-box in rear of tenement block, No. 38 Pearl street, owned by the estate of Dr. Thomas Wheat. Squad A responded. No services required.

STILL. Monday, June 24, 11.20 A. M. Smoking furnace in cottage house, No. 352 Walnut street, owned and occupied by E. J. Knowlton. Members of Engine and Ladder No. 5 responded. No services required.

Box 217. Monday, June 24, 5.29 P. M. Barn, connected with cottage at No. 233 Mammoth road, owned and occupied by Fred H. Bates. This fire communicated to the roof of a nearby barn, owned by Seth M. Stockwell, and occupied by A. W. Palmer. Cause, unknown. Box pulled by Fred H. Bates. Companies responding: Engines 3, 7, Hose 2, Combination 2, Squad A, Trucks 3, 7.

	Bates.	Stockwell.
Value of building	$1,500.00	$900.00
Damage to building	400.00	50.00
Insurance on building	900.00	700.00
Insurance paid	400.00	50.00

	Bates.
Value of contents	$2,000.00
Damage to contents	583.30
Insurance on contents	1,500.00
Insurance paid	583.30

No damage to the contents of Stockwell's barn.

Box 21. Wednesday, June 26, 3.53 P. M. Barn in rear of No. 70 Laurel street, owned by William Girard, and occupied by E. C. Haskell & Co. Cause, unknown. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Squad A, Trucks 1, 3. Value of building, $3,000; damage, $385; insurance, $2,000; insurance paid, $385. Value of contents, $75; damage, $50; insurance, $50; insurance paid, $50.

STILL. Wednesday, June 26, 5.15 P. M. Rekindling of above fire. Squad A responded. Used 1 pony extinguisher.

Box 16. Thursday, June 27, 3.30 P. M. Two-and-half-story wooden tenement house, No. 124 Concord street, owned by Mrs. Mary Martin, and occupied by Lawrence Masick and Margaret Sullivan. The fire communicated to tenement house on the east, No. 128 Concord street, owned by H. N. Bond, and occupied by Emanuel Descoteau and Alfred Cormier; also communicated to tenement house on the west, No. 120 Concord street, owned by Mrs. Eleda Bean, and occupied by John Downey and Mrs. E. J. Willard. Cause, unknown. Box pulled by citizen. Companies responding: Engines 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5.

	Bean.	Martin.	Bond.
Value of building	$3,000.00	$3,000.00	$2,500.00
Damage to building	968.65	1,000.00	437.69
Insurance on building	2,500.00	1,500.00	1,500.00
Insurance paid	968.65	800.00	437.69

Value of contents of the three houses	$1,500.00
Damage to contents	700.00

Insurance on contents	800.00
Insurance paid	500.00

STILL. Thursday, June 27, 7.20 P. M. An unfinished and unoccupied cottage house on Hackett Hill road near the Hooksett line, owned by Josef Dietka. Cause, incendiary. Squad A responded, but did not reach the scene of the fire as it broke a "jack-shaft" while attempting to climb the "sand hill" on the highway. Value of building, $400; damage, $400; no insurance.

Box 21. Thursday, June 27, 8.48 P. M. Ash barrel in rear of No. 316 Pine street. Needless alarm pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. No services required.

STILL. Thursday, June 27, 10.49 P. M. A barn on the Goffe's Falls road, three-and-one-half miles from the City hall, owned by James Thompson, of Hooksett, N. H., and occupied by J. A. Colby, who lost two horses and all his farming tools. Cause, unknown. Hose No. 3 responded. Laid 600 feet of hose from hydrant. On duty four hours. Value of building, $1500; damage $1,500; insurance, $1,200; insurance paid, $1,200. Value of contents, $1.000; damage, $1,000; insurance, $200; insurance paid, $200.

Box 21. Friday, June 28, 12.49 noon. Wooden stable in rear of No. 317 Pine street, owned by Mrs. James M. Moore, and occupied by L. E. Charles. Cause, unknown. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Squad A, Trucks 1, 3. Value of building, $200; damage, $100; insurance, $100; insurance paid, $100. No damage to contents.

Box 52. Saturday, June 29, 1.30 P. M. Slight fire in a closet in barber shop, in Hotel Merrimack, No. 15 South Main street, occupied by Henri Hebert. Cause, unknown. Box pulled by citizen. Companies responding: Engines 2, 6, Hose 1, Squad A, Trucks 1, 6.

STILL. Saturday, June 29, 2.06 P. M. Grass and old railroad ties at the corner of Union and Shasta streets. Cause, sparks from Boston & Maine locomotive. Hose No. 3 responded. Used 2 pony extinguishers.

STILL. Sunday, June 30, 10.52 A. M. Brush fire on Bald Hill road in Auburn, N. H., on land occupied by the State militia as a rifle range. The fire got beyond the control of the Auburn fire wardens, so they telephoned for help. Squad A responded. Later additional help was asked for. Engine No. 3 responded.

Box 21. Sunday, June 30, 11.16 A. M. Two-story woodshed in rear of No. 119 Merrimack street, owned by Joseph Luby, and occupied by several parties. Cause, youthful incendiary. Box pulled by citizen. Companies responding: Engine 1, Chemical, Hose 1, Trucks 1, 3. Value of building, $8,000; damage, $150; insurance, $7,400; insurance paid, $150. Value of contents, $600; damage, $200; insurance, $600; insurance paid, $200.

STILL. Sunday, June 30, 11.25 A. M. Brush fire on Boynton street, at Glenwood, on land owned by the Kennard heirs. Members of Engine No. 2 responded.

Box 21. Sunday, June 30, 11.35 A. M. Rekindling of woodshed fire, at No. 119 Merrimack street, of this date. All the companies that responded to the previous alarm had not "made up." Needless alarm pulled by citizen. Companies responding: Engines 2, 4, Chemical, Hose 1, 2, Trucks 1, 5.

STILL. Sunday, June 30, 1.15 P. M. Rekindling of brush fire at Glenwood, of this date. Members of Engine No. 2 responded.

Box 82. Sunday, June 30, 1.44 P. M. Five-story brick block, at the corner of Elm and Concord streets, owned by the Amoskeag Realty Co., and occupied by stores and offices. The fire originated in the Family Shoe store, No. 1035 Elm street, which is conducted by Alfred A. Gosselin, and without doubt the fire was of incendiary origin and aided by something highly inflammable. Box pulled by David McIntire. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5. Value of building, $75,000; damage, $1,150; insurance, $40,000; insurance paid, $1,150. Value of contents, $6,000; damage, $4,500; insurance, $6,000; no settlement has been made. An investigation of this fire was conducted by the Board of Engineers, and a number of witnesses were examined, without fixing definitely the cause of the fire.

STILL. Sunday, June 30, 7.15 P. M. A boy's play-house in a tree near the corner of Liberty and North streets. Members of Engine and Ladder No. 5 responded with hose wagon. Laid 250 feet of hose from hydrant.

STILL. Monday, July 1, 10.47 A. M. Four-story brick block, No. 64 Merrimack street, owned by the estate of John C. Young, and occupied by Napoleon Proulx. Slight fire in a closet. Cause, unknown. Squad A responded. Extinguished with dippers of water.

STILL. Monday, July 1, 1.49 P. M. McGregor bridge. Squad A responded. No services required.

STILL. Monday, July 1, 1.59 P. M. Grass fire on Willow street near the Driving park, on land owned by L. B. Bodwell. Hose No. 3 responded. Used 1 pony extinguisher.

Box 21. Monday, July 1, 4.40 P. M. Three-story wooden tenement block, No. 326 Pine street, owned by the heirs of A. D. Burgess, and occupied by several families. Cause, youthful incendiary. Box pulled by J. Twomey. Companies responding: Engines 3, 4, Chemical, Hose 1, Squad A, Trucks 1, 3.

STILL. Wednesday, July 3, 12.29 noon. Amoskeag bridge, owned by the city of Manchester. Cause, sparks from a Boston & Maine locomotive. Squad A and members of Engine and Ladder No. 5 responded. Used 1 chemical tank.

STILL. Wednesday, July 3, 5.25 P. M. Two-story wooden barn, in rear of No. 20 Auburn street, owned by John Foley, and unoccupied. Cause, unknown. Squad A responded. Used 1 chemical tank.

STILL. Wednesday, July 3, 9.04 P. M. An "out-house" of a cottage house at Kelley's Falls, owned by Merrill and Whitney and leased by

the Manchester Traction, Light and Power Co. Cause, unknown. Hose No. 1 and members of Engine No. 2, with hose wagon, responded. Used 1 pony extinguisher and a few pails of water.

STILL. Thursday, July 4, 10.00 A. M. Grass fire on the city farm, at the corner of Bridge and Belmont streets. Combination No. 2 responded. Used 1 pony extinguisher.

STILL. Thursday, July 4, 10.03 A. M. Two-story wooden block at Goffe's Falls, owned by the Devonshire Mills, and occupied by seven families. Cause, defective chimney. Hose No. 3 and Squad A responded. Engine No. 4 started, but word was sent to them to return to quarters before they reached there. Lines from the Mill hydrants and from the Volunteer Hose Co. were playing on the fire for some time before the arrival of the apparatus from the city. Value of building, $7,000; damage, $5,426; insurance, $3,000; insurance paid, $3,000. Value of contents, $2,000; damage, $500; insurance, $1,500; insurance paid, $500.

STILL. Thursday, July 4, 10.20 A. M. Cottage house, No. 11 Ash street, owned by the Clough heirs, and occupied by A. Corgile. Cause, fire-crackers. No damage. Hose No. 2 responded.

BOX 315. Thursday, July 4, 12.50 noon. A small boat-house on the west bank of the Merrimack river in Amoskeag, owned by the West Side Boat Club. Cause, unknown. Box pulled by citizen. Companies responding: Engine 5, Chemical, Truck 5. Value of building, $100; damage, $100; insurance, $100; insurance paid, $100.

STILL. Thursday, July 4, 12.58 noon. False alarm, caused by an unadjusted thermostat in Kimball Bros. shoe shop, at the corner of Massabesic and Cypress streets. Members of Engine and Ladder No. 3 responded.

STILL. Thursday, July 4, 1.45 P. M. Brush fire on Ward street, near North River road, on land owned by Henri Nicols. Members of Engine and Ladder No. 5 responded with hose wagon.

STILL. Thursday, July 4, 2.15 P. M. Brush fire on North River road, in the Stark district, on land owned by G. W. Morse. Cause, boys playing house. Members of Engine and Ladder No. 5 responded with hose wagon. Under control on their arrival.

BOX 321. Thursday, July 4, 4.02 P. M. Three-story wooden tenement house, No. 353 Dubuque street, owned by Robert Leggett, and occupied by Oliver Biron, Eugene Drocher and Louis Sousa. Cause, fire-cracker in rubbish in cellar. No damage. Box pulled by citizen. Companies responding: Engines 2, 6, Hose 1, Squad A, Trucks 1, 6.

STILL. Thursday, July 4, 6.14 P. M. Slight fire in a shed in rear of cottage house, No. 28 Laurel street, owned by L. Eldridge, and occupied by Charles Lussier. Cause, fire-crackers. Squad A responded. Used 1 pony extinguisher.

STILL. Thursday, July 4, 8.04 P. M. Lace curtain in two-and-half-story house, corner of Notre Dame avenue and Putnam street. Cause, fire-works. Members of Engine No. 2 responded. Extinguished before their arrival.

Box 52. Thursday, July 4, 8.07 P. M. Cottage house, No. 19 Clinton street, owned by Mrs. George S. Eastman, and occupied by Mrs. Ezilda Neguental. Cause, fire-works set fire to the roof. Damage slight. Box pulled by citizen. Companies responding: Engines 2, 6, Hose 1, Squad A, Trucks 1, 6.

STILL. Thursday, July 4, 8.30 P. M. Cottage house, No. 43 Nashua street, owned by Walter Seaward, and occupied by Mrs. —— Hickey. Cause, fire-works set fire to the roof. Damage slight. Hose No. 2 responded. Used 1 pony extinguisher.

STILL. Thursday, July 4, 8.45 P. M. Grass fire on Brown avenue, on land owned by Louis Poor. Hose No. 3 responded.

STILL. Thursday, July 4, 9.42 P. M. Three-and-half-story wooden tenement block, No. 11 Orange street, owned by William McElroy, and occupied by Joseph Gagnon. Squad A responded. Used 1 chemical tank.

STILL. Thursday, July 4, 10.25 P. M. Three-story wooden tenement block, No. 49 Amherst street, owned by Mrs. Josie McGillicuddy of Worcester, Mass., and occupied by Charles Chandlers. Cause, smoking in bed. Squad A responded. Used 1 pail of water.

Box 52. Thursday, July 4, 10.40 P. M. Cottage house, No. 383 Granite street, owned by the heirs of John Cayzer, and occupied by Henry R. Munson. Cause, sky-rocket went through the roof. Box pulled by Capt. Jeremiah Lane, of Engine No. 2. Companies responding: Engines 2, 6, Hose 1, Squad A, Trucks 1, 6. Value of building, $4,000; damage, $175; insurance, $2,000; insurance paid, $175. No damage to contents.

STILL. Friday, July 5, 12.50 noon. Grass fire on Mast street, near the Goffstown line, on land owned by H. F. Rodelsperger. Members of Engine No. 2 responded with Combination wagon. Used 4 pony extinguishers.

STILL. Friday, July 5, 2.37 P. M. Grass fire at the corner of Union and Hayward streets, on land owned by the Amoskeag Manufacturing Co. Squad A responded.

STILL. Friday, July 5, 4.25 P. M. Brush fire on Goffstown road, on land owned by Ben Greer. Squad A responded.

Box 4. Sunday, July 7, 11.19 A. M. Chimney fire in wooden tenement house, No. 54 Cedar street, owned by P. Harrington's Sons, and occupied by John Gorman. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Squad A, Trucks 1, 3.

STILL. Sunday, July 7, 2.10 P. M. Grass fire on Donald street, opposite St. Joseph's cemetery, on land owned by the Ranlett heirs. Members of Engine No. 2 responded with Combination wagon. Used 4 pony extinguishers and 2 chemical tanks, and laid 1,100 feet of hose from hydrant.

Box 21. Sunday, July 7, 3.50 P. M. Small barn in rear of No. 110 Merrimack street, owned by Henry Knowles, and occupied by C. H. Dennis. Cause, Eddie Ragile, a seven-year-old incendiary. No damage.

Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Squad A, Trucks 1, 3.

STILL. Sunday, July 7, 7.10 P. M. A bed in the cellar of three-story wooden tenement block, No. 242 Chestnut street, owned by Dr. A. F. Wheat, and occupied by John Mock. Cause, unknown. Squad A responded. Used 1 pail of water.

STILL. Monday, July 8, 3.17 P. M. One-story brick building, No. 42 Granite street, owned by Frank P. Johnson, and occupied by Abram Tatelman. Cause, cleaning clothes with gasoline. Squad A responded. Used 1 chemical tank.

BOX 71. Tuesday, July 9, 2.41 P. M. Three-story woodshed in rear of Nos. 201-205 Lake avenue, owned by Edwin L. Gresley, and leased by James Costakis. Cause, gas-stove. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Value of building, $7,000; damage, $224; insurance, $5,000; insurance paid, $224. No damage to contents.

STILL. Friday, July 12, 6.21 A. M. Four-story brick block, No. 21 Hanover street, owned by the estate of N. S. Clark, and occupied by A. I. Swenson as a tailor shop. Cause, gas flatiron left burning. Squad A responded. Used 1 pail of water.

STILL. Saturday, July 13, 1.20 P. M. Chimney fire in cottage house, No. 34 West street, owned and occupied by John Crimmins. Members of Engine No. 2 responded. Used 1 pony extinguisher.

BOX 71. Saturday, July 13, 6.56 P. M. False alarm pulled by "Gene" Jobin, who was being "kidded" by kids. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

STILL. Sunday, July 14, 2.03 P. M. Slight fire in an unoccupied barn, at No. 53 Lake avenue, owned by George Kantagis. Squad A responded. Used 1 chemical tank.

STILL. Friday, July 19, 1.14 P. M. False alarm. Word was received of a fire in H. P. Ray's hosiery mill in Amoskeag. Squad A responded, but found no fire.

BOX 4. Saturday, July 20, 4.50 P. M. A small shed in rear of No. 23 Fifth avenue, owned by Henry I. Haselton, and occupied by several parties. Cause, cigarette stub thrown from an adjoining building. Box pulled by T. Koustoulas. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Extinguished with chemicals. Value of building $25; damage, $5; no insurance. No damage to contents.

BOX 82. Saturday, July 20, 8.13 P. M. Three-story wooden tenement block, No. 36 Bridge street, owned by Mrs. M. Finman, and occupied by Mrs. Marie Rheault. Cause, overturning of lamp, damaging two rugs. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5.

STILL. Sunday, July 21, 4.15 P. M. Chimney fire in three-story flat, No. 13 Arlington street, owned by E. T. Hardey, and occupied by Curtis Joyal. Hose No. 2 responded. Used 4 pony extinguishers.

STILL. Monday, July 22, 2.39 P. M. Chimney fire in cottage house, No. 233 Mammoth road, owned and occupied by Fred H. Bates. Squad A responded. Used 1 chemical tank.

STILL. Monday, July 22, 9.15 P. M. Four-story brick building, No. 37 Auburn street, owned by Walter M. Parker, and occupied by the American Shoe Form Co. Cause, sparks on the roof in some leather dust. No damage. Squad A responded. Used 1 pony extinguisher.

STILL. Tuesday, July 23, 12.55 night. A smoking baker's oven in bakeshop at the corner of Douglas and West streets led somebody to think the building was on fire. Members of Engine No. 2 responded.

STILL. Tuesday, July 23, 10.40 A. M. Chimney fire in two-story wooden tenement house, No. 21 Kidder street, owned by the Amoskeag Manufacturing Co., and occupied by John Balsover. Squad A responded. Used 1 chemical tank.

STILL. Tuesday, July 23, 7.30 P. M. Shavings in the boiler-room of the Derryfield Lumber Co. on Beech street. Truck No. 7 responded. Fire out on their arrival.

STILL. Wednesday, July 24, 4.05 P. M. Grass fire at the corner of Auburn and Lincoln streets, on land owned by the Amoskeag Manufacturing Co. Members of Engine and Ladder No. 3 responded. Used 1 pony extinguisher.

STILL. Thursday, July 25, 11.10 A. M. Six-tenement block, No. 73 Clinton street. Cause, kettle of fat caught fire. Thrown out of doors by members of Engine No. 2, who responded.

STILL. Thursday, July 25, 3.10 P. M. Grass fire on North River road, in Stark park, owned by the city of Manchester. Squad A and members of Engine and Ladder No. 5 responded. Used 1 pony extinguisher.

BOX 15. Thursday, July 25, 6.36 P. M. Three-story wooden tenement block, No. 42 Pearl street, owned by Emile A. Turgeon, and occupied by Louis Proulx. Couch caught fire from some unknown cause, and was extinguished before the arrival of the department. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5.

STILL. Friday, July 26, 1.30 P. M. Brush fire in Boynton street at Glenwood on unoccupied land owned by the estate of A. J. Lane. Members of Engine No. 2 responded. Used 1 chemical tank.

STILL. Sunday, July 28, 1.12 P. M. Grass fire at Amoskeag Depot, on land owned by the Boston & Maine Railroad. Members of Engine and Ladder No. 5 responded. Used 2 pony extinguishers.

BOX 5. Monday, July 27, 8.58 P. M. Hotel Reynolds, No. 732 Elm street. Window awning fire, which was extinguished by a police officer before the alarm was given. Box pulled by John H. McCabe. Companies responding: Engines 1, 3, 4, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

STILL. Tuesday, July 30, 8.15 A. M. Four-story brick shoe shop, corner of J. Hall road and Portsmouth Railroad, owned ond occupied by

the W. H. McElwain Co. Cause, sparks in dust-blower. Squad A responded. Used 1 chemical tank.

STILL. Tuesday, July 30, 3.40 P. M. Four-story brick block, No. 383 Chestnut street, owned by George F. Bosher and occupied by Boufford & Letendre Co., undertakers. Cause, children set fire to some excelsior in basement. Squad A responded. All out on their arrival.

STILL. Thursday, August 1, 4.15 P. M. Rubbish on the flat roof of the New Idea Shoe Co., in rear of No. 971 Elm street. Squad A responded. No services required.

STILL. Thursday, August 1, 11.15 P. M. Old "railroad ties," near the west end of Douglas street, on land of the North Weare branch of the Boston & Maine Railroad. Squad A responded. Used 1 chemical tank.

STILL. Saturday, August 3, 5.17 P. M. Chimney fire in cottage house, No. 1162 Hanover street, owned by Stearns H. Smith, and occupied by Fred Lillis. Squad A responded. Used 2 pony extinguishers.

BOX 313. Sunday, August 4, 1.30 P. M. Four-tenement wooden block, No. 30 Marion street, owned by Edwin L. Gresley, and occupied by Gustav Bretschmar, *et al.* Fire was in Bretschmar's tenement in some rubbish near a stove. Damage slight. Extinguished without aid of the department. Box pulled by citizen. Companies responding: Engines 2, 4, 6, Hose 1, Squad A, Trucks 1, 6.

STILL. Wednesday, August 7, 2.24 P. M. Awning at the store of George E. Pearson, jeweller, No. 922 Elm street. Squad A responded. No services required.

STILL. Thursday, August 8, 5.38 P. M. Chimney fire in two-and-half-story dwelling, No. 142 Manchester street, owned by F. W. Avery, and occupied by Elzear Delaurier. Squad A responded. Used 2 pony extinguishers.

STILL. Sunday, August 11, 9.52 A. M. Chimney fire in two-and-half-story dwelling house, No. 47 Church street, owned by Tom W. Robinson, and occupied by Sarah Pellerin. Squad A responded. Used 1 chemical tank.

STILL. Thursday, August 15, 6.26 P. M. Lightning caused an "arrester" burn-out on an electric power pole in rear of the Cohas shoe factory of the W. H. McElwain Co. Hose No. 3 responded. Used 32 feet of ladders.

STILL. Saturday, August 17, 3.30 A. M. Chimney fire in cottage house, No. 316 Bridge street, owned by J. E. Charbonneau, and occupied by E. J. Palisoul. Hose No. 2 responded. Used 1 pony extinguisher.

STILL. Sunday, August 18, 1.36 P. M. Box of rubbish in rear of No. 46 Hanover street, used by the Union Publishing Co. Squad A responded. Used 1 pony extinguisher.

BOX 21. Sunday, August 18, 3.09 P. M. Two-story wooden building, Nos. 81-83 Central street, owned by the Bailey heirs of Boston, and occupied as a liquor saloon by Thomas H. Mahoney. Fire started in partition from some unknown cause. Extinguished with chemicals.

Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Squad A, Trucks 1, 3. Value of building, $1,000; damage, $75; insurance, $500; insurance paid, $75. No damage to contents.

STILL. Monday, August 19, 5.51 P. M. Smoking furnace in the First Universalist Church on Lowell street. Squad A responded.

STILL. Tuesday, August 20, 4.46 P. M. Hot ashes in a shed in rear of No. 17 Pearl street, owned by the estate of Hugh Ramsey, set fire to some rubbish, which was extinguished without any damage. Squad A responded. No services required.

Box 314. Friday, August 23, 11.34 P. M. False alarm, pulled by some malicious person. Companies responding: Engine 5, Hose 1, Squad A, Truck 5.

STILL. Saturday, August 24, 9.30 A. M. Two-and-half-story tenement house, No. 53 Amherst street, owned by the estate of Ellen Kerrins, and occupied by John Osiet. Curtain caught fire from the careless use of matches. Damage slight. Squad A responded. Used 1 pail of water.

Box 313. Saturday, August 24, 2.57 P. M. Three-story block, No. 39 Marion street, owned by Francois X. Parent, and occupied by Wilfred Nerbonne as a bowling alley. Cause, unknown. Box pulled by citizen. Companies responding: Engines 2, 4, 6, Hose 1, Squad A, Trucks 1, 6. Value of building, $12,000; damage, $35; insurance, $5,800; insurance paid, $35. No damage to contents.

Box 214. Saturday, August 24, 8.19 P. M. Three-story wooden tenement block, No. 214 Wilson street, owned by Henri Goyette, and occupied by Mike Kaipril (third floor). Fire originated on the third floor in a chest of drawers near the chimney and extended to the "blind attic." Cause, unknown. Box pulled by a boy. Companies responding: Engines 3, 7, Hose 2, 3, Combination 2, Squad A, Trucks 3, 7. Value of building, $9,000; damage, $800; insurance, $7,000; insurance paid, $747. Value of contents, $750; damage, $25; insurance, $480; insurance paid, $10.

Box 82. Friday, August 30, 9.12 P. M. Three-story wooden block, No. 34 Lowell street, owned by John H. McCabe, and occupied by John Zeimba as a tailor shop. Cause, lamp exploded. Damage slight. Box pulled by a police officer. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5.

Box 73. Saturday, August 31, 1.23 A. M. Two-story dwelling house, No. 303 Auburn street, owned and occupied by Mrs. Philomene Matthieu. Fire in bed started from some unknown cause. Damage slight. Box pulled by Louis Bosse. Companies responding: Engines 3, 4, Chemical, Hose 2, Squad A, Truck 3.

STILL. Saturday, August 31, 7.55 P. M. Box of rubbish in rear of three-story tenement block, No. 46 Vine street, owned by the Stark Mills. No damage. Squad A responded. Used 1 pony extinguisher.

Box 4. Monday, September 2, 11.59 noon. Three-story brick block, No. 11 Lake avenue, owned by the estate of Daniel Connor, and occu-

pied by Samuel F. Tatelman as a shoe and gents' furnishing store. Cause, electric wires. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3. Value of building, $30,000; damage, $65.90; insurance, $5,000; insurance paid, $65.90. Value of contents, $3,500; damage, $1,000; insurance, $3,000; insurance paid, $1,000.

STILL. Monday, September 2, 8.28 P. M. While tearing down the Morris block, corner of Elm and Hanover streets, a workman dropped a lantern, setting some rubbish on fire. Squad A responded. No services required.

STILL. Tuesday, September 3, 7.06 A. M. Three-story wooden tenement block, No. 11 Orange street, owned by William McElroy, and occupied by Joseph Gagnon. Slight fire in closet. Cause, unknown. Squad A responded. Used 1 pony extinguisher.

STILL. Thursday, September 5, 5.55 A. M. False alarm. Called by telephone to the corner of Central and Beech streets. Squad A responded, but found no cause for the call.

STILL. Thursday, September 5, 7.10 P. M. Pile of rubbish in rear of tenements owned by the Amoskeag Manufacturing Co., at No. 93 Douglas street. Members of Engine No. 2 responded. Used 1 pony extinguisher.

BOX 312. Friday, September 6, 9.14 P. M. Three-story wooden block, No. 447 North Main street, owned by Frank C. Livingston, and occupied by Gideon Gosselin as a shoe store. Cause, unknown. Box pulled by citizen. Companies responding: Engines 1, 2, 6, Hose 1, Squad A, Trucks 1, 6. Value of building, $10,000; damage, $111; insurance, $8,500; insurance paid, $111. Value of contents, $4,000; damage, $45; insurance, $2,000; insurance paid, $45.

BOX 82. Saturday, September 7, 8.11 P. M. Four-story brick tenement block, No. 88 West Bridge street, owned by the Stark Manufacturing Co., and occupied by Emilie Lamarche. Cause, kerosene lamp exploded, burning Miss Annie Kelley so severely that death ensued before the arrival of the department. The property damage was very small,—none to the building, and about $20 damage to the contents, which were uninsured. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5.

STILL. Sunday, September 8, 9.30 P. M. Grand stand at Varick park, owned by the Amoskeag Manufacturing Co. Cause, cigarette stub thrown on floor of dressing room. Squad A responded. Used 1 chemical tank.

STILL. Monday, September 9, 10.17 A. M. Three-story wooden tenement block, No. 36 Marion street, owned by E. W. Sargent and E. S. Dodge, and occupied by several families. Slight fire in a closet. Members of Engine and Ladder No. 6 responded. No services required.

BOX 4. Tuesday, September 10, 3.59 P. M. Three-story wooden tenement block, No. 46 Spruce street, owned and occupied by Christos Paskos and Peter Tembas. Cause, boiling tar on stove. No damage.

Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

STILL. Wednesday, September 11, 11.17 P. M. Cottage house, No. 930 Hanover street, owned and occupied by Essie A. Hall. Cause, lamp explosion. Squad A responded. No services required.

STILL. Thursday, September 12, 9.40 P. M. False alarm, caused by heat from gas jet in three-story wooden flat, No. 428 East Spruce street, owned by Mrs. C. E. Paige, and occupied by Mr. —— Wright. Members of Engine and Ladder No. 3 responded.

STILL. Saturday, September 14, 10.50 A. M. False alarm, caused by an unadjusted thermostat in the H. B. Reed shoe shop, on Kelley street. Members of Engine and Ladder No. 6 responded.

STILL. Saturday, September 14, 11.20 A. M. Three-story wooden dwelling house, No. 7 Notre Dame avenue, owned by John J. Cronan, and occupied by three families. Pile of rags took fire from some unknown cause. Members of Engine No. 2 responded. Used 1 pony extinguisher.

STILL. Saturday, September 14, 1.40 P. M. One-story wooden building, No. 414 Chestnut street, owned by the Elliott hospital, and occupied as a machine and repair shop by Peter Harris. Cause, explosion of "Presto-lite" tank, which severed one of Mr. Harris' legs and injured him otherwise so seriously that he died a few hours later. No damage by fire. Squad A responded.

STILL. Sunday, September 15, 3.20 P. M. Wooden tenement house, No. 196 Douglas street, owned by Henry C. Wyman, and occupied by David Tierney. Cause, kindling wood burning in cellar. No damage. Members of Engine No. 2 responded. Used 1 pony extinguisher.

BOX 512. Monday, September 16, 12.56 night. A heavy rain "slacked" a few barrels of lime in the cellar of a house, under process of construction, opposite No. 154 Notre Dame avenue, owned by Napoleon Perreault. No damage by fire. Box pulled by citizen. Companies responding: Engines 2, 6, Hose 1, Squad A, Truck 6.

STILL. Wednesday, September 18, 10.50 A. M. Barn on the Londonderry road in the Harvey district, owned and occupied by Andrew Zahn. Cause, spontaneous combustion of "picker-dust," which was piled against the side of the barn. Squad A responded. Used 2 pony extinguishers and 1 chemical tank.

BOX 31. Friday, September 20, 1.40 P. M. Four-story brick mill on the lower canal north of Bridge street, owned by the Stark Manufacturing Co. Cause, ignition of "picker-dust" on roof. Extinguished by the Mills department. Services of this department not needed. Box pulled by citizen. Companies responding: Engines 1, 5, Chemical, Hose 1, Squad A, Trucks 1, 5.

STILL. Friday, September 20, 2.40 P. M. False alarm. Cottage house, No. 945 Hayward street, owned by Daniel Allen, and occupied by Mrs. —— Lenwah. Cause, gasolene flat-iron. Truck No. 7 responded.

STILL. Saturday, September 21, 2.40 P. M.. An automobile on Web-

ster street, owned by the New Hampshire Fire Insurance Co. Members of Engine and Ladder No. 5 responded. Used 1 pony extinguisher.

STILL. Tuesday, September 24, 4.45 P. M. Chimney fire in cottage house, No. 19 Brooklyn avenue, owned by Mrs. Thomas Welch, and occupied by Frank E. Trull. Truck No. 7 responded. Used 1 pony extinguisher.

STILL. Friday, September 27, 12.07 night. Cottage house on Hooksett road, about three fourths of a mile beyond Hooksett line, owned by J. L. Brewer, and occupied by H. L. Brewer. Cause, unknown. Squad A responded. Used 1 chemical tank.

STILL. Sunday, September 29, 11.30 P. M. Electric light wire in contact with wet limbs of a tree, at the corner of Blodget and Beech streets, caused a "ground," which "lighted up" to such extent that Squad A was called. No services required.

STILL. Tuesday, October 1, 9.30 P. M. Chimney fire in two-story wooden block, No 493 Maple street, owned by the estate of William Corey, and occupied by Mrs. A. J. Drown. Members of Hose No. 2 responded. No services required.

STILL. Friday, October 4, 1.54 P. M. Grass fire on North River road, on land owned by Harry G. Clough. Burned over about five acres. Cause, sparks from a Boston & Maine locomotive. Members of Engine and Ladder No. 5 responded with hose wagon. Used 2 pony extinguishers.

STILL. Saturday, October 5, 1.30 A. M. Chimney fire in two-story wooden dwelling house, No. 97 Amherst street, owned by Mrs. Josie McGillicuddy of Worcester, Mass., and occupied by Joseph Barille. Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, October 5, 2.10 P. M. Two-story wooden church, corner of Merrimack and Chestnut streets, owned and occupied by the First Baptist society. Cause, burning paper under boiler. Squad A responded.

STILL. Sunday, October 6, 11.50 A. M. Three-story wooden building, No. 58 South Main street, owned by Mrs. F. E. Ingalls, and occupied as a fruit store by Paul Hanzad. Cause, unknown. Fire originated in bedroom in rear of store. Members of Engine No. 2 responded with Combination wagon. Used 1 chemical tank. Value of building, $9,000; damage, $50; insurance, $6,000; insurance paid, $50. Value of contents, $1,000; damage, $120; insurance, $750. No settlement has been made.

STILL. Monday, October 7, 6.20 A. M. Four-story brick block, No. 780 Elm street, owned by the estate of E. M. Topliff, and occupied by Herbert E. Dunnington, druggist. Cause, boiling over of sugar, in basement, on gas-stove. No damage. Squad A responded. No services required.

STILL. Monday, October 7, 9.40 A. M. Two-story wooden dwelling, No. 25 Derryfield lane, owned by the estate of John A. Riddle, and occupied by Anthony Goszbye. Cause, waste paper in basement. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, October 7, 10.40 P. M. Two-and-half-story wooden club house, No. 205 South Main street, owned and occupied by the Maennerchor Club. Fire started in closet from some unknown cause. Members of Engine No. 2 responded with Combination wagon. Used 1 pony and 1 tank. Value of building, $14,000; damage, $100; insurance, $8,500; insurance paid, $100. No damage to contents.

BOX 71. Wednesday, October 9, 3.32 P. M. Three-story wooden tenement block, No. 161 Cedar street, owned by Daniel Moulman, and occupied by Harry Specter, *et al.* Cause, rags in a closet. No damage. All out on arrival of apparatus. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

BOX 7. Saturday, October 12, 2.26 P. M. Three-story wooden tenement block, No. 154 Manchester street, owned by Charles Charon, and occupied by Napoleon Bush. Cause, children playing with matches and kindling wood. No damage. Box pulled by Police Officer Dustin. Companies responding: Engines 1, 3, Chemical, Hose 1, Squad A, Trucks 1, 3.

STILL. Sunday, October 13, 7.40 P. M. Chimney fire in cottage house, No. 24 Nashua street, owned by Minnie MacDonald, and occupied by Patrick O'Brien. Hose No. 2 responded. Used 1 pony extinguisher.

BOX 4. Monday, October 14, 4.53 P. M. Small barn in rear of No. 42 Cedar street, owned by the estate of Dr. James Sullivan, and occupied by Joseph M. Dery. Cause, unknown. Extinguished with chemicals. Damage slight. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

STILL. Tuesday, October 15, 11.55 A. M. Chimney fire in three-story brick tenement and mercantile block, No. 1333 Elm street, owned by Gordon Woodbury, and occupied by several parties. Squad A responded. No services required.

STILL. Tuesday, October 15, 1.25 P. M. Chimney fire in cottage house, No. 428 Front street, Amoskeag, owned and occupied by M. F. Donnell. Squad A responded. Used 1 pony extinguisher.

STILL. Tuesday, October 15, 6.59 P. M. Pile of railroad ties in the Boston & Maine Railroad yard. Cause, sparks from locomotive. Squad A responded. Used 1 chemical tank and laid 400 feet of hose from hydrant. On duty one hour.

STILL. Wednesday, October 16, 8.30 A. M. Three-story wooden tenement block, No. 53 West street, owned by John F. O'Malley, and occupied by three families. Cause, kettle of fat boiling over. Members of Engine No. 2 responded. No services required.

STILL. Wednesday, October 16, 4.15 P. M. Chimney fire in three-and-half-story brick block, No. 181 West Central street, owned by the Amoskeag Manufacturing Co., and occupied by Frank O'Brien. Squad A and Truck No. 1 responded. Used 1 chemical tank and 60 feet of ladders.

STILL. Wednesday, October 16, 5.40 P. M. Tool-box, at the corner of Montgomery and Kelley streets, owned by the city of Manchester.

Cause, explosion of a lantern. Members of Engine and Ladder No. 6 responded with hose wagon. Used 1 pony extinguisher.

STILL. Thursday, October 17, 2.35 P. M. Grass fire on North River road, on land owned by Harry G. Clough. Cause, sparks from Boston & Maine locomotive. Squad A and members of Engine and Ladder No. 5 responded.

Box 6. Friday, October 18, 3.43 A. M. Four-story brick block, No. 940 Elm street, owned by George H. Brown, and occupied by Brown and Burpee, opticians. Cause, unknown. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Squad A, Trucks 1, 5. Value of building, $8,000; damage, $800; insurance, $8,000; insurance paid, $600. Value of contents, $8,000; damage, $650; insurance, $4,000; insurance paid, $650.

Box 261. Friday, October 18, 9.25 A. M. Two-and-half-story wooden dwelling house, No. 333 Pearl street, owned by Clarence E. Rose, and occupied by Joseph W. Lindsay. Cause, explosion of "water-front" to a stove. No damage by fire. Box pulled by a citizen. Companies responding: Engine 1, Hose 2, Combination 2, Squad A, Truck 3.

STILL. Friday, October 18, 9.30 P. M. Chimney fire in two-story dwelling house, No. 451 Granite street, owned by the estate of John Gorman, and occupied by John Veneau. Members of Engine No. 2 responded. Used 2 pony extinguishers and 1 chemical tank.

STILL. Sunday, October 20, 7.00 A. M. Chimney fire in two-and-half-story dwelling house, No. 49 Alfred street, owned by Alfred W. Morse, and occupied by Dr. G. S. Foster. Combination No. 2 responded. Used 1 pony extinguisher and 1 chemical tank.

STILL. Sunday, October 20, 10.40 A. M. A lace curtain in a tenement at No. 123 Londonderry lane, occupied by Adolph Vallieres. Cause, contact with lamp. Squad A responded.

Box 114. Sunday, October 20, 5.02 P. M. Two-and-half-story brick dwelling house at the corner of Ash and Myrtle streets, owned and occupied by Mrs. Moody Currier. Cause, unknown. Extinguished with chemicals. Box pulled by Dana A. Emery. Companies responding: Engines 1, 5, Hose 2, Combination 2, Truck 5. Value of building, $15,000; damage, $922; insurance, $11,000; insurance paid, $922. Value of contents, $10,000; damage, $350; insurance, $9,000; insurance paid, $300.

Box 31. Monday, October 21, 7.59 A. M. Two-story brick dwelling house, No. 621 Canal street, owned by the Amoskeag Manufacturing Co., and occupied by Joseph Abell. Cause, unknown. Box pulled by citizen. Companies responding: Engines 1, 5, Chemical, Hose 1, Squad A, Trucks 1, 5. Value of building, $6,000; damage, $100; insurance, $6,000; insurance paid, $100. Value of contents, $800; damage, $70.50; insurance, $650; insurance paid, $70.50.

Box 21. Tuesday, October 22, 8.18 A. M. Dwelling house in rear of No. 121 Merrimack street, occupied by several Polish families. Slight fire in pile of kindling wood in basement. Cause, unknown. No dam-

age. Box pulled by Albert Clark. Companies responding: Engines 1, 3, Chemical, Hose 1, Squad A, Trucks 1, 3.

STILL. Tuesday, October 22, 9.00 P. M. An automobile, in front of Smyth's block on Elm street, owned by Dr. J. E. Larochelle. Cause, leaky gasolene tank. Squad A responded. Used 2 pony extinguishers and 1 Pyrene gun. Value of automobile, $650; damage, $70; no insurance.

STILL. Thursday, October 24, 11.55 A. M. A three-tenement wooden block, No. 514 Maple street, owned by Josiah Carpenter, and occupied by Mrs. W. H. Colburn. Cause, oil-stove. Hose No. 2 responded. No services required.

STILL. Saturday, October 26, 2.20 P. M. Four-story brick block, No. 93 Manchester street, owned by Timothy O'Connor, and occupied by Cevere Gelinas. Cause, Children playing with matches. Squad A responded. No services required.

STILL. Sunday, October 27, 10.33 A. M. False alarm. Painters disconnected a thermostat in the Cohas shoe shop of the W. H. McElwain Co. on Willow street. Hose No. 3 responded.

BOX 82. Tuesday, October 29, 12.06 noon. A pile of old lumber on Charles street, between Spring and West Bridge streets, owned by the Stark Manufacturing Co. Cause, unknown. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Squad A, Trucks 1, 5.

STILL. Saturday, November 2, 6.30 P. M. Chimney fire in two-story wooden tenement house, No. 170 Manchester street, in tenement occupied by Arthur Ponton. Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, November 2, 10.30 P. M. Two-story wooden dwelling house, No. 120 Myrtle street, owned and occupied by F. W. Doyle. Fire in bed, started from some unknown cause. Squad A responded. Used 1 chemical tank.

STILL. Sunday, November 3, 4.40 P. M. Dwelling house, No. 138 Calef road, owned by Catherine Burns, and occupied by Patrick Keefe. Cause, sparks from chimney ignited shingles on roof. Hose No. 3 responded. Used 2 pony extinguishers and laid 550 feet of hose from hydrant. Value of building, $1,000; damage, $15; insurance, $800; insurance paid, $15. No damage to contents.

STILL. Monday, November 4, 6.12 A. M. An ash-box in rear of No. 69 Cedar street, owned by A. Pappacostas. Cause, hot ashes. Squad A responded. Used 1 pony extinguisher.

BOX 4. Monday, November 4, 7.54 A. M. "Back-firing" of an automobile in the city yard on Franklin street created some smoke, and some excited person gave the alarm. Companies responding: Engines 1, 3, 4, Chemical, Hose 1, 2, Squad A, Trucks 1, 3.

STILL. Monday, November 4, 10.10 P. M. An automobile on Bridge-street extension, owned by Dr. P. H. Moran. Cause, "back-firing." Squad A responded. Used 1 "Pyrene gun." Value of automobile, $1,000; damage, $800; insurance, $1,000; insurance paid, $800.

STILL. Tuesday, November 5, 10.10 P. M. Pile of rubbish beside the new five-story concrete shoe shop of the W. H. McElwain Co., between the Boston & Maine Railroad tracks and the Merrimack river. Cause, unknown. Squad A responded. Laid 550 feet of hose from hydrant. On duty one hour.

STILL. Wednesday, November 6, 1.52 P. M. False alarm. Called by telephone to Brown avenue. Squad A responded. Could find no fire.

STILL. Wednesday, November 6, 2.13 P. M. Brush fire on Rosedale avenue, on land owned by Cleaves Harvey. Hose No. 3 responded. Used 2 pony extinguishers.

STILL. Thursday, November 7. 10.20 A. M. An ash-barrel in rear of No. 654 North Main street, owned by the Slater heirs. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

STILL. Thursday, November 7, 1.50 P. M. Chimney fire in cottage house, No. 52 Oakland avenue, owned and occupied by Jesse L. Hill. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, November 11, 6.40 A. M. Chimney fire in two-story wooden tenement house, No. 136 Walker street, owned by Oscar Brown, and occupied by John Ferguson. Members of Engine No. 2 responded with Combination wagon. Used 1 pony extinguisher.

Box 21. Monday, November 11, 9.23 A. M. Two-and-half-story wooden tenement block, No. 126 Central street, owned by Mrs. —— Merrill of Londonderry, N. H., and occupied by Adam Bourassa. Cause, child playing with matches. Extinguished with chemicals. Box pulled by citizen. Companies responding: Engines 1, 3, 4, Chemical, Hose 1, Squad A, Trucks 1, 3. Value of building, $2,500; damage, $50; insurance, $2,000; insurance paid, $50. No damage to contents.

STILL. Thursday, November 14, 5.10 A. M. Two-story wooden dwelling house, No. 247 Pine street, owned and occupied by Alphonse Gustus. Cause, clothes too near stove. Squad A responded. No services required.

STILL. Saturday, November 16, 2.30 P. M. Chimney fire in three-story wooden dwelling house, No. 227 Walnut street, owned by A. C. Colby, and occupied by Milo W. Wilson. Squad A responded. Used 1 pony extinguisher.

Box 313. Monday, November 18, 11.16 P. M. Three-story wooden tenement and mercantile block, No. 144 McGregor street, owned by Walter M. Parker, and occupied as a paint and paper store by Hector Desfosses & Co. Cause, unknown. Box pulled by Police Officer Moran. Companies responding: Engines 1, 2, 4, 6, Hose 1, Squad A, Trucks 1, 6.

STILL. Tuesday, November 19, 12.45 noon. Chimney fire in two-and-half-story wooden tenement block, No. 126 Central street, owned by Mrs. —— Merrill of Londonderry, N. H., and occupied by Adam Bourassa. Squad A responded. Used 1 chemical tank.

Box 52. Tuesday, November 19, 7.40 P. M. Three-story wooden block, No. 12 North Main street, owned by Gordon Woodbury, and occupied as

a grocery store by F. P. Johnson. Fire originated in the basement near the furnace, where it was confined. Cause, cigarette stub. Box pulled by a police officer. Companies responding: Engines 2, 6, Hose 1, Squad A, Trucks 1, 6. Value of building, $15,000; damage, $642; insurance, $6,000; insurance paid, $642. Value of contents, $3,000; damage, $1,250; insurance, $2,500; insurance paid, $1,250.

Box 511. Wednesday, November 20, 1.15 P. M. Grass fire on Railroad street, on land owned by the estate of E. G. McKean. No damage. Needless alarm pulled by citizen. Companies responding: Engines 2, 6, Hose 1, Squad A, Truck 6.

STILL. Thursday, November 21, 3.00 P. M. Smoking chimney, caused by "dead air," in four-story brick block, No. 23 Prospect street, owned by Norwin S. Bean, and occupied by William F. Small. Squad A responded. No services required.

STILL. Thursday, November 21, 4.45 P. M. Burning rubbish on Brown avenue, on land owned by the Miller heirs. Needless call. Hose No. 3 responded. No services required.

STILL. Sunday, November 24, 3.50 P. M. Chimney fire in four-story brick block, No. 107 Stark street, owned by the Stark Mills, and occupied by William Danielson. Squad A responded. Used 1 chemical tank.

Box 315. Sunday, November 24, 4.50 P. M. Chimney fire in cottage house, No. 411 Front street, owned by W. F. Stearns, and occupied by E. C. Manley. Box pulled by citizen. Companies responding: Engine 5, Squad A, Truck 5.

STILL. Sunday, November 24, 5.05 P. M. Chimney fire in three-and-half-story wooden block, No. 468 Union street, owned by Isaac Resnick, and occupied by Mrs. —— Sullivan, *et al.* Chemical Engine responded. Used 1 chemical tank.

Box 7. Sunday, November 24, 5.10 P. M. While the Chemical Engine Co. was working on the foregoing chimney fire, some excited individual pulled in the alarm. All out before the box was pulled. Companies responding: Engines 1, 3, 4, Hose 1, Squad A, Trucks 1, 3.

STILL. Sunday, November 24, 6.25 P. M. Chimney fire in four-story brick block, No. 1292 Elm street, owned by Edwin Kennedy, *et al.*, and occupied by Arthur Faucher. Squad A responded. No services required.

STILL. Sunday, November 24, 6.45 P. M. Chimney fire in cottage house on Platts avenue, owned and occupied by Charles Gleason. Squad A responded. Used 2 pony extinguishers.

STILL. Sunday, November 24, 7.20 P. M. Chimney fire in four-story wooden block, No. 427 North Main street, owned by George Blanchet, and occupied by twelve families. Members of Engine and Ladder No. 6 responded. Used 2 pony extinguishers.

STILL. Monday, November 25, 10.00 A. M. One-story wooden building, No. 412 Chestnut street, owned by the Elliott Hospital, and occupied by the Oneeda Laundry. Cause, smoking stove. Squad A responded. No services required.

STILL. Monday, November 25, 4.15 P. M. An automobile in a barn in rear of No. 412 Cartier street, owned by Joseph St. Yves. Damage slight. Members of Engine and Ladder No. 6 responded. Used 2 pony extinguishers.

STILL. Monday, November 25, 6.55 P. M. Chimney fire in three-story wooden tenement house, No. 237 Manchester street, owned by Isaac Resnick, and occupied by Dermine Roberts. Squad A responded. No services required.

STILL. Thursday, November 28, 5.15 P. M. Chimney fire in three-story wooden block, No. 25 Marion street, owned by Samuel J. Laflamme, and occupied by nine families. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

STILL. Saturday, November 30, 11.15 A. M. Grass fire on Hevey street extension, on land owned by the Amoskeag Manufacturing Co. Cause, set by boys. Members of Engine and Ladder No. 6 responded.

STILL. Saturday, November 30, 12.27 noon. Brush fire on South Beech street, in back of the Catholic cemetery, on land owned by L. Harvey. Burned over about half an acre. Cause, sparks from burning brush piles, set by wood-choppers. Hose No. 3 responded. Used 1 pony extinguisher.

STILL. Saturday, November 30, 10.05 P. M. False alarm. Somebody telephoned "a fire near the Standard Oil tanks, on Willow street." Hose No. 3 responded, but could find no fire.

BOX 213. Sunday, December 1, 5.05 P. M. Three-story wooden building, Nos. 39 to 59 Beech street, and Portsmouth Railroad, owned and occupied by the Derryfield Lumber Co., makers of doors, sash and blinds. Cause, sparks from boiler ignited shavings in the shavings bin. Box pulled by watchman. Companies responding: Engines 3, 7, Chemical, Hose 2, 3, Squad A, Trucks 3, 7. Value of building and contents, $85,000; damage, $1,350; insurance, $75,000; insurance paid, $1,350.

STILL. Monday, December 2, 2.10 P. M. Double cottage, No. 382 East Spruce street, owned by the estate of George Wheeler, and occupied by —— Johnson. Cause, rubbish in stove. Members of Engine and Ladder No. 3 responded. Used 1 pony extinguisher.

BOX 213. Tuesday, December 3, 3.42 A. M. Three-story wooden building, Nos. 39 to 59 Beech street, and Portsmouth Railroad, owned and occupied by the Derryfield Lumber Co. Cause, sparks from chimney before roof had been repaired from fire of December 1. Box pulled by watchman. Companies responding: Engines 3, 7, Chemical, Hose 2, 3, Squad A, Trucks 3, 7. No damage.

STILL. Tuesday, December 3, 4.58 P. M. Chimney fire in three-story wooden tenement block, No. 513 Chestnut street, owned by the heirs of Wm. E. Buck, and occupied by Louis Tournakis. Squad A responded. Used 1 pony extinguisher.

STILL. Wednesday, December 4, 7.55 A. M. Chimney fire in two-story dwelling house, No. 187 Hanover street, owned by David Perkins, and occupied by Carl J. Johnson. Squad A responded. No services required.

STILL. Saturday, December 7, 11.45 A. M. Chimney fire in two-and-half-story dwelling house, No. 115 Central street, owned by Catherine Collity, and occupied by George Pappas. Squad A responded. Used 1 pony and 1 tank.

STILL. Monday, December 9, 6.50 A. M. Chimney fire in cottage house, No. 226 Amory street, owned and occupied by Edward Lesmeries. Members of Engine and Ladder No. 6 responded. Used 2 pony extinguishers.

STILL. Monday, December 9, 9.05 P. M. Chimney fire in three-story wooden tenement block, No. 21 Clark avenue (off Pearl street), owned by Higgins and Dennett, and occupied by Amedee Proulx, *et al.* Squad A responded. Used 2 pony extinguishers.

STILL. Tuesday, December 10, 7.25 A. M. An ash-box in rear of No. 32 Vine street, in yard owned by the Stark Mills. Members of Hose No. 1 responded. Used 1 pony extinguisher.

STILL. Tuesday, December 10, 10.25 A. M. One-story wooden shed on Brown avenue, near Goffe's Falls, owned and occupied by Mrs. Cassius C. Webster. Cause, caught from grass fire set by a Boston & Maine locomotive. The land burned over was owned by J. L. Poore, Mrs. C. C. Webster, Herman Webster, Mrs. F. C. Morgan and Mrs. G. B. Forsaith. Hose No. 3 and Squad A responded. Value of building, $50; damage, $50; no insurance. Value of contents, $20; damage, $20; no insurance.

STILL. Tuesday, December 10, 1.10 P. M. Grass fire on North River road, in Stark park. Cause, sparks from a Boston & Maine locomotive. Squad A responded. Used 1 pony extinguisher.

STILL. Tuesday, December 10, 6.45 P. M. Two-story wooden dwelling house, No. 270 Manchester street, owned by J. T. Healy, and occupied by William Balsover. Cause, overheated stove. Squad A responded. Used 1 pony extinguisher.

STILL. Wednesday, December 11, 7.40 P. M. Grass fire on Notre Dame avenue, on land owned and occupied by the Notre Dame hospital. Members of Engine and Ladder No. 6 responded. Used 1 pony extinguisher.

BOX 4. Friday, December 13, 3.59 A. M. Four-story wooden tenement block, No. 50 Spruce street, owned by Patsas Bros., and occupied by several Greek families. Cause, hot ashes in a wooden box on rear piazza. Extinguished with chemicals. Damage slight. Box pulled by Police Officer Pennett. Companies responding: Engines 1, 3, 4, Chemical, Hose 1, 3, Squad A, Trucks 1, 3.

STILL. Friday, December 13, 6.35 P. M. Chimney fire in three-story wooden dwelling, No. 41 Orange street, owned by Higgins and Dennett, and occupied by Arman Duprez. Squad A responded. Used 1 pony and 1 tank.

STILL. Friday, December 13, 6.40 P. M. Chimney fire in two-and-half-story wooden tenement block, No. 11 Parker street, owned by W.

H. Ansell, and occupied by four families. Members of Engine No. 2 responded. Used 1 pony extinguisher.

STILL. Saturday, December 14, 11.22 A. M. Brush fire in rear of No. 302 North Main street, on land owned by Victor Savoie. Cause, set by boys. Squad A responded.

STILL. Monday, December 16, 5.15 P. M. City dump, on Beech street, near Grove. Cause, set by boys. Squad A responded. Used 2 pony extinguishers.

Box 541. Monday, December 16, 11.45 P. M. An unoccupied two-story wooden dwelling house, corner of Harriman and Sheridan streets, Glenwood, owned by Mrs. Alphonsine Chartrand. Cause, incendiary. Box pulled by —— Charon. Companies responding: Engine 2, Hose 1, Squad A, Truck 6. Value of building, $3,000; damage, $882.32; insurance, $2,500; insurance paid, $882.32.

STILL. Tuesday, December 17, 5.25 P. M. Grass fire on J. Hall road, on land owned by Robert P. Stevens. Squad A and members of Engine and Ladder No. 3 responded. Used 1 pony extinguisher.

Box 12. Wednesday, December 18, 2.39 P. M. An automobile, in one-story garage, at No. 754 Chestnut street, owned by George P. Crafts. Cause, breaking of electric lamp. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Squad A, Truck 5. Extinguished by Squad A, which had responded on "still," before the arrival of the department. No damage to building. Value of contents, $4,000; damage, $53; insurance, $4,000; insurance paid, $53.

STILL. Thursday, December 19, 6.35 P. M. Chimney fire in three-story wooden tenement block, No. 363 Silver street, owned by Mrs. —— Leclaire, and occupied by V. Vanier. Truck No. 7 responded. Used 2 pony extinguishers.

STILL. Thursday, December 19, 6.45 P. M. Chimney fire in cottage house, on Oneida street, owned and occupied by Martin McGuire. Members of Engine No. 2 responded.

STILL. Thursday, December 19, 6.55 P. M. Chimney fire in two-and-half-story tenement building, No. 64 Cedar street, owned by J. P. Connelly, and occupied by John Demopulos. Squad A responded. Used 1 pony and 1 tank.

STILL. Thursday, December 19, 7.15 P. M. Chimney fire in three-story brick block, No. 70 Orange street, Whittier and Foster, agents for owner, and occupied by Alphonse Legrass. Squad 3 responded. Used 1 pony extinguisher.

STILL. Thursday, December 19, 10.19 P. M. Rubbish in back yard at No. 393 Wilson street, owned by Nellie Brickley. Squad A responded. Used 1 pony extinguisher.

STILL. Friday, December 20, 9.40 A. M. Chimney fire in two-story wooden block, No. 971 Elm street, owned by Roger G. Sullivan, and occupied by the New Idea Shoe store. Squad A responded. Used 1 pony extinguisher.

STILL. Saturday, December 21, 11.40 P. M. Two-story wooden tenement block, No. 353 Pine street, Whittier and Foster, agents for owner, and occupied by Joseph Fournier. Cause, bed. Squad A responded. Used 1 pony extinguisher.

STILL. Monday, December 23, 6.10 A. M. Chimney fire in two-story wooden tenement block, No. 44 Bridge street, owned by Julius Provencher, and occupied by Arthur Fontaine. Squad A responded. Used 1 chemical tank.

STILL. Monday, December 23, 11.55 P. M. Two-tenement wooden block, No. 355 East Spruce street, owned by J. Levison, and occupied by Henry Whedon. Cause, smoking stove. Members of Engine and Ladder No. 3 responded. No services required.

STILL. Thursday, December 26, 10.52 A. M. An unfinished two-story house, No. 1062 Page street, owned and occupied by George H. Porter. Cause, set by a six-year-old child. Hose wagon of Engine No. 3, Squad A and Truck No. 7 responded. Value of building, $800; damage, $150; no insurance. Value of contents, $300; damage, $100; no insurance.

STILL. Saturday, December 28, 11.55 A. M. Three-story wooden tenement block, No. 307 Chestnut street, owned by Mrs. Etta Topping, and occupied by William Sage. Cause, rubbish under cellar stairs. Squad A responded. Used 1 chemical tank.

STILL. Saturday, December 28, 3.15 P. M. Chimney fire in cottage house, No. 201 Central street, owned by Frank Gilford, and occupied by Homer St. Peter. Squad A responded. No services required.

Number of Alarms by Months.

	Bell.	Still.	Total.
January	16	61	77
February	15	42	57
March	12	25	37
April	15	42	57
May	17	37	54
June	19	42	61
July	13	41	54
August	7	13	20
September	6	18	24
October	9	23	32
November	7	28	35
December	5	28	33
	141	400	541

COMPANIES RESPONDING.

Months.	Engines.							Chemical.	Hose.			Comb'tn 2.	Squad A.	Trucks.				
	1	2	3	4	5	6	7		1	2	3			1	3	5	6	7
January	8	3	9	8	3	1	2	14	13	6	10	2	55	11	10	3	1	2
February ...	9	6	6	4	1	3	2	11	10	6	9	3	28	4	7	3	5	
March	7	1	7	7	2	1	1	9	10	6	5	2	27	7	7	3	1	1
April	7	2	10	7	0	2	1	14	13	2	18	3	33	9	10	1	2	2
May	6	3	10	10	3	2	2	12	11	7	11	5	30	10	10	3	2	2
June.....	9	2	12	10	3	1	3	14	17	5	10	2	42	16	12	5	1	3
July.....	5	3	7	8	3	3	0	10	12	3	8	1	31	12	7	3	3	0
August	1	2	3	5	2	2	1	3	5	3	2	1	18	4	3	2	2	1
September..	5	2	2	1	2	2	0	4	6	1	2	0	15	5	2	2	2	2
October.....	9	0	4	2	3	0	0	7	7	6	3	3	20	8	5	4	0	0
November..	4	3	3	4	1	3	0	3	6	0	6	0	22	5	3	1	3	0
December ..	2	1	3	2	1	0	2	3	2	2	4	0	24	1	3	1	1	4
Totals.....	72	28	76	68	24	20	14	104	112	47	88	22	345	92	79	31	23	20

Estimated Value of Property.

Engine No. 1.

LOCATED ON VINE STREET.

1 first-size Amoskeag steamer	$4,000.00
1 one-horse wagon	400.00
3 horses for steamer	775.00
1 roan horse for hose wagon	300.00
4 swinging harnesses	200.00
1 pair double exercise harnesses	50.00
1 single exercise harness	40.00
1,800 feet of fabric hose in good condition	810.00
550 feet of fabric hose in damaged condition	110.00
Stable fixtures, blankets, etc.....	80.00
Tools, furniture and fixtures	200.00
Firemen's suits and badges	125.00
Total amount	$7,090.00

Engine No. 2.

LOCATED ON NORTH MAIN STREET, 'SQUOG.

1 second-size Amoskeag steamer	$4,000.00
1 combination chemical and hose wagon	1,700.00
1 exercise wagon, poles, shafts, and three-horse hitch	250.00
3 horses for steamer	600.00
1 pair horses for hose wagon	400.00
3 exercise harnesses, 2 at $40, 1 at $20	100.00
5 swinging harnesses	250.00
1 double sled	60.00
1,800 feet of fabric hose in good condition	810.00
1,760 feet of fabric hose in damaged condition	350.00
Stable fixtures and blankets	94.00
Furniture, fixtures, carpets, etc	466.00
Firemen's suits and badges	125.00
Total amount	$9,205.00

Engine and Ladder No. 3.

LOCATED ON LAKE AVENUE, CORNER MASSABESIC STREET.

1 first-size Amoskeag steamer	$4,750.00
1 two-horse hose wagon	400.00
1 three-horse truck and equipments	1,900.00
3 horses for steamer	550.00
1 pair bay horses for hose wagon	400.00
3 horses for truck	600.00
4 exercise harnesses	180.00
8 swinging harnesses	400.00
1,850 feet of fabric hose in good condition	810.00
750 feet of fabric hose in damaged condition	150.00
Stable fixtures, blankets, etc	80.00
Beds, bedding, carpets, hall furniture, etc	575.00
Firemen's suits and badges	150.00
1 exercise wagon	250.00
Total amount	$11,195.00

Engine No. 4.

LOCATED ON VINE STREET.

1 first-size Amoskeag steamer	$4,200.00
1 hose wagon	400.00

3 horses for steamer	$600.00
1 horse for wagon	150.00
4 exercise harnesses	60.00
4 swinging harnesses	200.00
1,200 feet of fabric hose in good condition	540.00
300 feet of fabric hose in damaged condition	60.00
Hall furniture, beds, bedding, etc	275.00
Stable fixtures and blankets	75.00
Firemen's suits and badges	125.00
Total amount	$6,685.00

Engine and Ladder No. 5.

LOCATED ON WEBSTER STREET, CORNER CHESTNUT.

1 third-size Amoskeag steamer	$3,600.00
1 two-horse rubber-tired hose wagon	760.00
1 steel frame ladder truck	1,650.00
1 pair bay horses for steamer	400.00
1 pair bay horses for truck	400.00
1 pair horses for hose wagon	525.00
1 exercise wagon	325.00
1 double sled	50.00
1 single sled	25.00
6 swinging harnesses	300.00
2 pairs exercise harnesses	100.00
1,100 feet of fabric hose in good condition	495.00
2,550 feet of fabric hose in damaged condition	510.00
Bedding, furniture, tools, etc	300.00
Stable fixtures, blankets, etc	120.00
Firemen's suits, badges, etc	150.00
Total amount	$9,710.00

Engine and Ladder No. 6.

LOCATED AT CORNER AMORY AND RIMMON STREETS.

1 second-size Amoskeag steamer	$3,500.00
1 hook-and-ladder truck (with Bangor extension)	1,680.00
1 two-horse rubber-tired hose wagon	760.00
1 exercise wagon	290.00
2 gray horses for steamer	300.00
2 bay horses for truck	267.00
2 horses for hose carriage	450.00
6 swinging harnesses	300.00

1,650 feet of fabric hose in good condition	$742.50
1,500 feet of fabric hose in damaged condition	300.00
Hall furniture, carpets, beds, bedding, etc	475.00
Stable fixtures, blankets, etc	85.00
Firemen's suits and badges	150.00
Total amount	$9,299.50

Engine and Ladder No. 7.

LOCATED ON SOMERVILLE STREET.

1 second-size Amoskeag steamer	$3,500.00
1 hook-and-ladder truck, rubber tired	2,250.00
1 two-horse rubber-tired hose wagon	760.00
1 exercise wagon	325.00
3 horses for steamer	850.00
2 horses for truck	650.00
2 horses for hose wagon	575.00
7 swinging harnesses	350.00
2,000 feet of fabric hose	900.00
Furniture, fixtures, etc	575.00
Stable fixtures, blankets, etc	90.00
Firemen's suits and badges	150.00
Total amount	$10,975.00

Hose No. 1.

LOCATED ON VINE STREET.

1 two-horse rubber-tired hose wagon and wagon gun	$850.00
2 horses	600.00
2 swinging harnesses	100.00
1 set Hobbs' runners	90.00
1 hose sled	20.00
1,250 feet of fabric hose in good condition	562.50
750 feet of fabric hose in damaged condition	150.00
Furniture, fixtures, beds, bedding, etc	300.00
Stable fixtures and blankets	50.00
Firemen's suits and badges	100.00
Total amount	$2,822.50

Hose. No. 2.

LOCATED ON MAPLE STREET, CORNER OF EAST HIGH.

1 two-horse hose wagon, rubber-tired	$750.00
2 bay horses	500.00
2 swinging harnesses	100.00
1 exercise wagon	325.00
1,250 feet of fabric hose in good condition	562.50
1,200 feet of fabric hose in damaged condition	240.00
Furniture, fixtures, beds and bedding	150.00
Firemen's suits and badges	100.00
Total amount	$2,727.50

Hose No. 3.

LOCATED ON SOUTH ELM STREET, BAKERSVILLE.

1 combination hose wagon, rubber-tired (with ladders)	$1,000.00
1 pair gray horses	100.00
1 pair swinging harnesses	100.00
1 pair exercise harnesses	50.00
1 exercise wagon	260.00
1,450 feet of fabric hose in good condition	652.50
650 feet of fabric hose in damaged condition	130.00
Furniture, fixtures, bedding, etc	85.00
Stable fixtures, blankets. etc	65.00
Firemen's suits and badges	80.00
Total amount	$2,522.50

Combination Hose and Chemical No. 2.

LOCATED ON WESTON STREET, CORNER OF CONCORD.

1 combination chemical and hose wagon	$1,700.00
2 bay horses	550.00
2 swinging harnesses	100.00
1 exercise wagon	250.00
1,100 feet of fabric hose in good condition	495.00
700 feet of fabric hose in damaged condition	140.00
Furniture, fixtures, bedding, etc	482.00
Stable fixtures and blankets	50.00
Firemen's suits and badges	80.00
Total amount	$3,847.00

Hook and Ladder Company No. 1.

LOCATED ON VINE STREET.

1 aërial ladder truck, rubber-tired, pneumatic hoist	$6,700.00
3 horses	600.00
3 exercise harnesses	75.00
3 swinging harnesses	150.00
3 rubber blanket covers	72.00
50 feet fabric hose	22.50
Furniture and fixtures	200.00
Beds, bedding and furniture	75.00
Stable fixtures and blankets	60.00
Firemen's suits and badges	150.00
Total amount	$8,050.50

Chemical Engine No. 1.

LOCATED ON VINE STREET.

1 double tank (60 gallons each) engine, rubber-tired	$2,500.00
1 pair bay horses	500.00
1 pair exercise harnesses	50.00
1 pair swinging harnesses	100.00
Furniture and fixtures	100.00
Stable fixtures and blankets	50.00
Firemen's suits and badges	35.00
Total amount	$3,335.00

Squad A, Auto-Combination.

LOCATED ON VINE STREET.

Automobile combination wagon	$5,500.00
600 feet fabric hose	270.00
Firemen's "fire" suits and badges	80.00
2 extra rubber tires	200.00
Beds, bedding and furniture	250.00
Total amount	$6,300.00

Supply Wagon.

1 supply wagon, with coal boxes	$150.00

Exercise Wagon.

AT CENTRAL STATION, VINE STREET.

1 four-wheeled exercise wagon with pole, shafts, three-horse hitch, and coal boxes	$150.00

Spare Hose Carriage and Hose.

1 one-horse hose carriage (spare)	$150.00
3,000 feet old hose for relining	600.00
Total amount	$750.00

E. W. Harrington Steam Fire Engine.

STORED AT SHEDS OF ENGINE NO. 2.

Old U tank Amoskeag engine (worth for exchange)	$200.00

Engineers' Department.

1 bay horse	$325.00
1 chief's wagon	275.00
1 swinging harness	37.00
5 engineers' white rubber coats	37.50
5 engineers' lanterns	20.00
Blanket, robe, etc	25.00
Furniture and fixtures	150.00
Total amount	$869.50

Riverside Hose Company No. 5.

LOCATED AT CORNER OF OLD FALLS ROAD AND FRONT STREET.

1 four-wheeled hose carriage	$150.00
400 feet of leather hose	100.00
800 feet of fabric hose	240.00
2 hose-pipes, spanners, etc	40.00
Furniture and fixtures	10.00
Total amount	$540.00

Hallsville Hose Company No. 6.

LOCATED AT CORNER OF MAMMOTH ROAD AND MASSABESIC STREET.

1 four-wheeled hose carriage	$200.00
500 feet of fabric hose	150.00
Nozzle, wrenches, etc.	15.00
Total amount	$365.00

Goffe's Falls Hose Carriage.

LOCATED AT DEVONSHIRE MILLS.

1 one-horse hose carriage	$200.00
800 feet fabric hose	576.00
2 hose-pipes	10.00
Total amount	$786.00

Extra Horses.

1 bay	$150.00
1 gray horse	50.00
Total amount	$200.00

Fire-Alarm Telegraph.

At cost, including additions	$23,550.00
Remodeling in 1885	6,000.00
"Individual tapper" system	4,000.00
Boxes and wire added in 1907	1,000.00
Storage battery	1,850.00
Switch protector board	175.00
Wire brackets and tools	400.00
Boxes and wires added in 1908-09-11	1,150.00
New combination gongs and indicators	1,000.00
Repair wagon	150.00
Total amount	$39,475.00

Recapitulation.

Engine Company No. 1	$7,090.00
Engine Company No. 2	9,205.00

Engine and Ladder Company No. 3	$11,195.00
Engine Company No. 4	6,685.00
Engine and Ladder Company No. 5	9,710.00
Engine and Ladder Company No. 6	9,299.50
Engine and Ladder Company No. 7	10,975.00
Hose Company No. 1	2,822.50
Hose Company No. 2	2,727.50
Hose Company No. 3	2,522.50
Combination Hose and Chemical No. 2	3,847.00
Hook and Ladder Truck Company No. 1	8,050.50
Chemical Engine Company No. 1	3,335.00
Auto-Combination, Squad A	6,300.00
Supply Wagon (Central Station)	150.00
Exercise Wagon (Central Station)	150.00
Spare Hose Carriage and Hose	750.00
E. W. Harrington Steamer	200.00
Engineer's Department	869.50
Riverside Hose Company	640.00
Hallsville Hose Company	365.00
Goffe's Falls Hose Company	786.00
Extra horses	150.00
Fire-alarm telegraph	39,475.00
	$137,300.00

BOARD OF ENGINEERS.

Badge No.	Name.	Rank.	Occupation.	Residence.
1	Thomas W. Lane	Chief	Chief engineer	1937 Elm.
3	Arthur Provost	Deputy Chief	Merchant	526 Notre Dame av
4	Thomas F. Fitzsimmons	"	Painter	258 Notre Dame av
5	Edwin W. Merrill	"	Merchant	166 Blodget.
2	John F. Seaward	"	Contractor	27 Warren.

SUPERINTENDENT OF FIRE ALARM.

Charles H. French. Residence, 475 Hanover Street.

ENGINE COMPANY No. 1.

House, 28 Vine Street.

Badge No.	Name.	Rank.	Occupation.	Residence.
18	George A. Cann	Captain	Permanent	96 Brook.
15	George F. Millar	Lieutenant	Salesman	944 Hanover.
19	Natt A. Sargent	Clerk	Merchant	435 Amherst.
6	Charles F. Hall	Engineer	Permanent	146 Orange.
7	George W. Booth	Asst. engineer	Second-hand	21 Water.
11	Frank E. Nute	Driver engine	Permanent	425 Merrimack.
12	Clarence F. Kemp	Driver hose	"	645 Union.
17	Melvin Walker	Hoseman	Carpenter	6 Canal.
13	George E. Bolton	"	Gardener	753 Union.
16	Harry E. Belknap	"	Carpenter	530 Wilson.
10	John J. Kearns	"	Plumber	27 Boyden.

ENGINE COMPANY No. 2.

House on North Main Street, 'Squog.

Badge No.	Name.	Rank.	Occupation.	Residence.
76	Jeremiah Lane	Captain	Permanent	210 No. Main.
77	William Arnold	Lieutenant	Barber	17 So. Main.
67	Archibald A. Gorham	Clerk	Machinist	50 Barr.
120	Charles Edgar	Engineer	Permanent	40 Market.
119	Stephen Thomes	Asst. engineer	Carpenter	107 Douglas.
72	Thomas F. Collins	Driver of engine	Permanent	28 Second.
69	Clarence A. Whitcomb.	Driv. combin't'n	"	66 No. Main.
71	John W. Gott	Hoseman	Wool-sorter	95 Douglas.
75	Ernest R. Whitcomb	"	Wool-sorter	66 No. Main.
74	Oscar G. Lagerquist	"	Clerk	37 Green.
68	Alvin Drescher	"	Boilermaker	47 Montgomery.

ENGINE AND LADDER COMPANY No. 3.

House on Lake Avenue, corner of Massabesic.

Badge No.	Name.	Rank.	Occupation.	Residence.
86	Frank F. Porter	Captain	Permanent	330 Spruce.
150	William T. Winslow	Lieut. of engine	Shoe-cutter	395 Lake ave.
97	Edwin C. Paul	" truck	Collector	450 Lake ave.
88	George Taylor	Clerk	Clerk	456 Lake ave.
122	John P. Walker	Engineer	Permanent	570 Cedar.
78	Leslie W. Dolloff	Asst. engineer	Clerk	427 Central.
105	Herbert E. Dunbar	Driver of engine.	Permanent	396 Central.
81	John T. Duncan	Driver of hose	"	384 Spruce.
82	Lyman W. Piper	Driver of truck	"	398 Merrimack.
89	Parker R. Brown	Fireman	Salesman	422 Merrimack.
121	Arthur S. Brown	"	Merchant	291 Myrtle.
84	George L. Slack	"	Salesman	141 Massabesic.
98	William B. Blake	"	Health inspector	265 Cypress.
79	Harry J. Smith	"	Shoe-maker	382 Lake ave.
43	Frank C. Curtis	"	Laundryman	461 Lake ave.
114	Charles H. Day	"	Merchant	522 Central.
148	Archer L. Thomas	"	Painter	285 Central.
87	William W. Knee	"	Electrician	455 Central.
80	John A. Haselton	"	Piper	598 Cedar.
85	Dennis M. Flemming	"	Wool sorter	169 Green.

ENGINE COMPANY No. 4.

House, No. 20 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
28	Frank A. Pherson	Captain	Permanent.	20 Vine.
33	Thomas W. Lane, Jr ...	Lieutenant.....	Electrician	1937 Elm.
32	Jesse L. Perkins.....	Clerk	Hotel-keeper.....	121 Hanover.
21	Walter Morse	Engineer	Permanent	20 Vine.
27	Edward Sargent.....	Asst. Engineer..	Machinist.....	73 Amherst.
31	Emil H. Smith	Driver of engine	Permanent	20 Vine.
37	Henry C. Parsons	Driver of hose...	"	20 Vine.
24	Adams L. Greer	Hoseman	Piano Dealer.....	76 Lowell.
26	Harold A. Sayward.....	"	Clerk.....	599 Union.
20	Robert W. Turnbull	"	Machinist	311A Lake ave.
25	Lewiell M. Chase	"	Electrician	330 Lowell.

ENGINE AND LADDER COMPANY No. 5.

House, No. 44 Webster Street.

Badge No.	Name.	Rank.	Occupation.	Residence.
161	Irving S. Bryant.	Captain.....	Permanent.....	884 Union.
49	Charles W. Brown	Lieut. engine.....	Clerk	95 Harrison.
46	Woodbury Davison.....	Lieut. truck	Carpenter	908 Clay.
108	Edward L. Towle	Clerk	Salesman.....	71 N. Adams.
102	Joseph H. Gould.....	Engineer.....	Permanent.....	762 Beech.
30	James C. Newton.... ...	Asst. engineer....	Machinist	424 Amherst.
134	Alphonso E. Foster.....	Driver engine....	Permanent	529 Hevey.
57	Ellsworth V. Rowe.....	Driver hose.....	"	313 Walnut.
124	Benjamin C. Cann	Driver truck.....	"	96 Brook.
42	Arthur S. Hamilton.....	Fireman.....	Painter.....	92 Brook.
101	Charles W. Warner.....	"	Electrician	75 Sagamore.
159	Charles E. Longa.....	"	Electrician.....	10 N. Adams.
95	William W. Cupples.....	"	Clerk.....	927 Union.
47	Wilbur M. Gilman	"	Piper.....	30 Brook.
100	Maurice Hoffman.....	"	Tailor.....	321 Walnut.
162	George A. Whitten	"	Tinsmith.....	54 Appleton.
41	J. H. Cronin	"	Stone-mason.....	1407 Elm.
195	Carl B. Thurber....	"	Rubber Stamp Mfr.	72 N. Adams.
123	George W. Upton.... ...	"	Electrician	297 Walnut.
158	Andrew S. Fantom.....	"	Cigar-maker.....	167 Brook.

ENGINE AND LADDER COMPANY No. 6.

House on Amory St., corner Rimmon Street.

Badge No.	Name.	Rank.	Occupation.	Residence.
141	Mederique R. Maynard.	Captain..... ...	Permanent	302 Cartier.
147	James A. Farley.....	Lieut. engine ...	Machinist	385 Dubuque.
146	Toussaint Tremblay	Lieut. truck.....	Carpenter.....	143 Wayne.
137	John W. Lyons.....	Clerk	Loom-fixer	562 No. Main.
132	Toby Lemay	Engineer.....	Permanent.....	464 Cartier.
135	Patrick J. O'Connell....	Asst. Engineer ..	Painter	560 No. Main.
125	Celon D. Stevens.....	Driver of engine	Permanent.....	416 Bartlett.
140	John H. Cote.....	Driver hose.....	"	Engine-house.
142	Frank St. John..... ..	Driver truck	"	47 Bremer.
128	John H. McCabe.....	Fireman.....	Plumber.	310 No. Main.
130	Calvin Brinn.....	"	Loom-fixer.....	356 Rimmon.
144	John Montplaisir.....	"	Clerk	462 Dubuque.
136	Roumelt Cote	"	Plumber	291 Dubuque.
143	William Broderick.....	"	Loom-fixer.....	513 Rimmon.
129	Philip Cote	"	Baker.....	335 Dubuque.
133	Francois X. Gagne	"	Contractor.....	291 Bartlett.
138	John A. Gemmel	"	Clerk	27 Quincy.
145	Joseph St. Germain.....	"	Truckman.....	377 Rimmon.
131	Arthur Pelletier.....	"	Carpenter	437 Rimmon.
139	Charles Caron	"	Clerk.....	402 Rimmon.

ENGINE AND LADDER COMPANY No. 7.

House, Somerville Street.

Badge No.	Name.	Rank.	Occupation.	Residence.
170	James J. Collins	Captain	Permanent	767 Somerville.
171	John W. Chapman	Lieut. engine	Plumber	890 Clay.
172	Henry W. Barnard	Lieut. truck	Carpenter	213 Jewett.
173	Franklin P. Cleveland	Clerk	Woodworker	726 Somerville.
174	Fred S. Morrill	Engineer	Permanent	115 Cypress.
175	Louis Ross	Asst. Engineer	Plumber	746 Hayward.
176	Arthur Hebert	Driver engine	Permanent	49 Maple.
177	George N. Rogers	Driver hose	"	173 Taylor.
178	Percy L. Nute	Driver truck	"	495 Wilson.
179	Charles J. Beliveau	Fireman	Janitor	931 Hayward.
180	Albert L. Worthen	"	Plumber	1005 Cilley road.
181	James S. Long	"	Dresser	65 Hall.
183	Harold E. Wheeler	"	Shoemaker	821 Dix.
187	John W. Clark	"	Gasfitter	1000 Cilley road.
188	William L. Gray	"	Dresser	75 Prout ave.
189	Henry L. O'Malley	"	Plumber	153 Belmont.
190	Ephraem Gendron	"	Teamster	574 Silver.
191	John Knight	"	Laborer	761 Summer.
192	John J. Landregan	"	Steamfitter	100 Hall.
182	Charles E. Luscombe	"	Clerk	223 Jewett.

CHEMICAL ENGINE COMPANY No. 1.

House, No. 8 Vine Street.

Badge No.	Name.	Rank.	Occupation.	Residence.
115	Hervey E. Harris	Captain	Permanent	100 Brook
116	Clarence D. Palmer	Clerk	Marble dealer	185 Concord.
185	Robert H. Duncan	Driver	Permanent	152 Pearl.
103	Albert M. Tuson	Pipeman	"	58 Blodget.
117	Archie Miller	"	Substitute fireman.	242 East High.

HOSE COMPANY No. 1.

House, No. 26 Vine Street.

Badge No.	Name.	Rank.	Occupation.	Residence.
64	Melvin W. Worthen	Captain	Permanent	19 Ash.
36	Alfred Firth	Lieutenant	Machinist	4 Derry.
53	Leon H. French	Clerk	Electrician	19 Prospect.
29	Charles H. Rogers	Driver	Permanent	26 Vine.
48	Albert A. Puffer	Hoseman	Teamster	499 Beech.
34	Harry Barrett	"	Machinist	26 Vine.
50	Charles H. Skinner	"	Car Inspector	84 Ashland.
52	George O. Harvey	"	Carpenter	463 Canal.

HOSE COMPANY No. 2.

House, No. 525 Maple Street.

Badge No.	Name.	Rank.	Occupation.	Residence.
111	Roscoe Dyer	Captain	Permanent	525 Maple.
58	Thomas Smith	Lieutenant	Carpenter	24 South.
54	Thomas P. Burnap	Clerk	"	56 Nashua.
57	Benjamin R. Richardson	Driver	Permanent	525 Maple.
56	Fred W. Corey	Hoseman	Needle-maker	497 Maple.
68	Walter Seaward	"	Carpenter	54 Arlington.
59	Frank G. Miller	"	Car inspector	246 E. High.
55	James B. Flanders	"	Carpenter	351 E. High.

HOSE COMPANY No. 3.

House, South Elm Street.

Badge No.	Name.	Rank.	Occupation.	Residence.
51	Clarence R. Merrill	Captain	Permanent	414 Merrimack
157	Frank D. Hardy	Lieutenant	Trainman	34 Elm ave.
156	Ernest E. Austin	Clerk	Electrician	43 Welch ave.
152	Frank W. Tebbetts	Driver	Permanent	7 Elm.
154	William P. Hall	Hoseman	Sash-maker	39 Elm.
153	James H. McKenzie	"	"	72 Elm.
151	Forrest M. Laraba	"	Laundryman	21 Elm.
155	William E. Geer	"	"	20 Cheney pl.

COMBINATION COMPANY No. 2.

House, corner Weston and Concord Streets, Wilson Hill.

Badge No.	Name.	Rank.	Occupation.	Residence.
164	Alfred Gustafson	Captain	Permanent	Concord and Weston.
166	Joseph W. Lindsay	Lieutenant	Tinsmith	333 Pearl.
127	Michael J. Bradley	Clerk	Gasfitter	125 Ashland.
167	Henry C. Crosby	Driver	Permanent	465 E. High.
168	Angus McDonald	Hoseman	Blacksmith	427 Laurel.
40	William G. Anderson	"	Mill operative	465 E. High.
169	Gardner E. Marston	"	Plumber	3 Morrison.
165	Thomas A. Reed	"	Painter	699 Beacon.
44	Albert W. Tucker	Driv. sup'ly wag.	Teamster	18 Brown ave.

FLYING SQUADRON, COMPANY A.

House, No. 12 Vine Street.

Badge No.	Name.	Rank.	Occupation.	Residence.
14	Frank H. Harvey	Captain	Permanent	359 Concord.
198	John J. Healy	Lieutenant	"	336 Lake ave.
184	Arthur J. Provost	Clerk	"	47 Bremer.
99	Will G. Fraser	Hoseman	"	609 Beech.
197	Martin F. Kenney	"	"	632 N. Main.
35	Louis Loiselle	"	"	45 Myrtle.
90	Harry G. Hall	"	"	308 Granite.
96	Fred A. Burnham	"	"	511 Lincoln.

HOOK AND LADDER COMPANY No. 1.

House, No. 18 Vine Street.

Badge No.	Name.	Rank.	Occupation.	Residence.
110	Albert W. Smith	Captain	Permanent	42 Elm.
92	Oscar P. Stone	Lieutenant	Clerk	312 Manchester.
112	Frank M. Frisselle	Clerk	Editor	17 Hazel.
94	Asa W. Gage	Driver	Permanent	18 Vine.
118	Lorenzo D. H. Ford	Tillerman	"	461 Hanover.
100	William P. Jones	Ladderman	Steam-fitter	407 Lake av.
113	Louis Swanson	"	Carpenter	75 Water.
106	Ernest E. Johnson	"	Gas employee	383 Central.
109	Frederick Marsh	"	Carpenter	78 Water.
91	Alfred C. Lamper	"	Gas employee	53 Jane.
107	Charles H. Burhart	"	Steam-fitter	18 Vine.
104	Algernon B. Skinner	"	Clerk	20 Manchester.

PERMANENT RELIEF MEN.

Badge No.	NAME.	Companies.	Residence.
126	Edwin M. Dorney.....	Engine 1, Hose 1 and Truck 1.....	254 Walnut.
194	Clarence J. Dolloff.....	Hose 3, Chemical 1 and Engine 4....	164 Calef road.
193	Clarence Hackett.....	Eng. and Lad. 3. Eng. and Lad. 7....	345 Belmont.
196	William L. Comire.....	Engine 2 and Engine and Ladder 6.	422 Cartier.
93	Joseph Stuart.....	Eng. and Lad. 5, Hose 2, Comb. 2 ...	755 Beech.

REPORT

OF THE

ENGINEER'S DEPARTMENT.

REPORT OF ENGINEER'S DEPARTMENT.

MANCHESTER, N. H., December 31, 1912.

To the Honorable Mayor and City Councils:

GENTLEMEN:—The thirty-fourth annual report of the engineer's department is herewith submitted, showing the expenditures and operations for the year ending December 31, 1912.

ORGANIZATION.

SAMUEL J. LORD, *Engineer.*
GEORGE W. WALES, *First Assistant.*
HARRIE M. YOUNG, *Chief Clerk.*

Assistants: Alfred T. Dodge, instrument man; Henry A. Worthen, instrument man; Edson W. Keith, instrument man; Harold M. Haskell, draughtsman; Lawrence A. O'Connor, rodman; Horace C. Wyman, rodman (to May 11); Ralph E. Baker, rodman (May 27 to September 28); Russell W. Garland, rodman (June 29 to July 8); Harold L. Davis, rodman (June 24 to September 3); Donald T. Page, rodman (July 9 to August 17); A. D. Lewis, rodman (August 21 to August 27); Harold T. Baker, rodman (September 5 to September 28); Paul Kirvan, rodman (September 19 to November 21); Prescott Cox, rodman (September 30 to December 9); Frank Carr, rodman (from October 19); Felix A. Lepage, stenographer and typewriter.

FINANCIAL.

AMOSKEAG MANUFACTURING COMPANY.

1912.			
Mar.	30.	To labor centering and painting transit rods, 2 hours @ 40c.	$0.80

CHARLES A. BAILEY.

1912.			
Dec.	21.	To 38 stone bounds @ $1.25 each	$47.50

CARL K. BEADLE.

1912.			
Oct.	1.	To labor and material packing maps for shipment	$3.75

C. L. BERGER.

1912.				
Feb.	19.	To repairing, cleaning and adjusting one Berger transit, No. 2026, 9 hours' labor @ 60c...	$5.40	
		new packing piece.....	1.00	
		new tripod head.....	5.00	
		new foot plate.....	3.80	
		one silk hood.....	1.00	
		express paid when received....	.60	
		express paid when returned...	.40	
				$17.20
Mar.	12.	To repairing, cleaning and adjusting one Berger level, No. 1894, 12½ hours' labor @ 60c	$7.50	
		express charges paid when received	.50	
		express charges paid when returned	.40	
				$8.40

BOSTON & MAINE RAILROAD.

1912.				
Sept.	3.	To freight on 1 bundle maps from Boston, Mass.....	$0.72	
	5.	To freight on 1 bundle maps from Boston, Mass.....	.57	
				$1.29

JOHN B. CLARKE COMPANY.

1912.				
Feb.	12.	To printing 500 cost cards from electrotypes	$4.75	
Aug.	24.	To printing 558 cost cards, Form 1, stock furnished.....	1.00	
	13.	To printing 300 annual reports, engineer's department, 68 pages and cover @ 65c.....	44.85	
				$50.60

FARRELL BROTHERS.

1911.				
Dec.	18.	To 1 Hubbell plug.....	$0.25	
		labor	.35	
				$0.60
Mar.	21.	To 1 metal cap for Hubbell plug..	$0.15	
		2 key sockets.....	.50	
		1 hour labor.....	.50	
				$1.15

GEORGE D. FITTS.

1912.			
Jan.	15.	To 100 5x3 record cards.....	$0.20

JULIEN P. FRIEZ.

1912.				
July	2.	To 1 year's set sheets, Form E 1015 for rain recorder		$5.25

FRANK A. GAY.

1912.				
Feb.	14.	To labor on Mitchell land, Brown avenue, 5–23–11	$4.20	
		labor on Mitchell land, Brown avenue, 5–25–11	1.00	
		labor on Hose House lot, Goffe's Falls, 10–23–11	4.20	
		labor on Hose House lot, Goffe's Falls, 10–24–11	3.20	
		labor on Hose House plan, 10–25–11	2.00	
				$14.60
Nov.	5.	To labor setting batters, South Main street engine house	$6.00	
		car fare	.40	
	6.	To labor setting batters, South Main street engine house	4.00	
		car fare	.20	
				$10.20
Sept.	26.	To labor on Vine street lot	$5.00	
	27.	To labor on Vine street lot	3.75	
Oct.	10.	To labor grade and line in Pennsylvania avenue and Page street	5.00	
	14.	To labor grade and line in Pennsylvania avenue and Page street	5.00	
Nov.	4.	To labor lot on South Main street for engine house	5.00	
		car fare	.30	
				$24.05

W. P. GOODMAN.

1912.				
Feb.	23.	To 6 boxes rubber bands	$1.50	
		By credit rubber bands returned	.56	
				$0.94

HARRY L. GOULD.

1912.				
Jan.	27.	To weekly report on hydrant bench marks for 1911	$12.00	
Dec.	21.	To weekly report on hydrant bench marks for 1912	12.00	
				$24.00

PETER HARRIS.

1912.				
June	28.	To making 2 keys @ 25c		$0.50

MANCHESTER AUTO GARAGE.

1912.				
Sept.	24.	To 2 hours' labor repairing motor on Federal truck	$1.20	
	28.	To 1 hour labor on truck	.60	
Oct.	8.	To 1 gasoline shut-off	.50	
				$2.30
Oct.	23.	T 1 valve cap	$1.25	
	31.	To 2 hours' labor on truck at city hall	1.20	
				$2.45

MANCHESTER HARDWARE COMPANY.

1912.				
Jan.	29.	To 1 pair pliers	$1.00	
Mar.	2.	To 50 yards silk line	.50	
Sept.	21.	To 19 nickel numbers @ 6c each	1.14	
				$2.64

MANCHESTER MACHINE WORKS.

1912.				
Sept.	4.	To brazing axle box on Engineer's wagon	$1.00	
		stock used	.25	
				$1.25

CHARLES F. McCARTHY.

1912.				
Sept.	21.	To lettering 1 street sign		$0.30

NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY.

1912.				
Jan.	27.	To exchange service for 12 months ending December 31, 1912 (Tel. No. 315)	$30.00	
		To exchange service January 1 to January 24, 1911, @ $25 per year	$1.67	
		To exchange service 11 months, 6 days, up to and including December 31, 1911, at $36 per year	33.60	
			$35.27	
		By credit cash paid in January, 1911, draft	25.00	
			$10.27	

Jan.	27.	By credit reduction in rate from $36 to $30 per year, 2 months @ 50c per month.....	$1.00		
				$9.27	
		To tolls charged at engineer's department office:			
		Dec. 19, Concord 315-2...	$0.10		
		Concord 248.....	.10		
		Concord 800.....	.10		
		20, Concord 248.....	.10		
		Concord 248.....	.10		
		Concord 248.....	.10		
				.60	
					$39.87

EDWARD N. PEARSON, SECRETARY OF STATE.

1912.				
June	5.	To chauffeur's license for Henry A. Worthen for operating one-ton Federal truck for 1 year.....		$5.00

THE RUEMELY PRESS.

1912.				
July	30.	To 700 cards, 4x6, 8-ply stock, printed.....		$3.50

SANBORN CARRIAGE COMPANY.

1912.				
Feb.	17.	To 4 plates of iron on body.....	$1.00	
Mar.	19.	To 2 bolts in bars.....	.10	
	23.	To painting and lettering engineer's wagon No. 2.....	23.00	
				$24.10

E. G. SOLTMAN.

1912.				
Jan.	15.	To 1 50-yard roll No. 412 Congress blue print paper 36″ wide....	$3.95	
		express prepaid.....	.55	
				$4.50
Feb.	1.	To 1 roll 57″ tracing paper.....	$3.50	
		express prepaid.....	.45	
				$3.95
Feb.	22.	To 1 roll 36″ blue print paper.....	$3.95	
		express prepaid.....	.55	
				$4.50
Mar.	23.	To 1 roll 36″ blue print paper.....	$3.95	
		express prepaid.....	.55	

April	10.	To 2 bottles Higgins W. P. ink @ $2.25	$4.50	
		1 bottle Crystalline ink	.15	
		6 dozen Kohinoor pencils	4.75	
		1 dozen Verdenette erasers	.50	
		1 roll 36″ blue print paper	3.95	
		1 36″ Hercules steel square edge	3.40	
		2 pans colors	.55	
		1 dozen Eagle torpedo pencils with holders	3.00	
		express prepaid on above	.80	
				$26.10
May	17.	To 1 50-yard roll 36″ blue print paper	$3.95	
		express prepaid	.55	
				$4.50
June	25.	To 1 roll 36″ blue print paper	$3.95	
		express prepaid	.55	
				$4.50
July	25.	To 1 roll 36″ blue print paper	$3.95	
		express prepaid	.55	
				$4.50
Sept.	3.	To 1 roll 36″ blue print paper	$3.95	
		express prepaid	.55	
				$4.50
Oct.	8.	To 1 50-yard roll blue print paper	$3.95	
		9 dozen Kohinoor pencils	7.13	
		1 dozen Verdenette erasers	.50	
		express prepaid	.55	
				$12.13
Nov.	12.	To 1 50-yard roll blue print paper	$3.95	
		express prepaid	.55	
				$4.50
Dec.	12.	To 50 yards 36″ blue print paper	$3.95	
		express prepaid	.55	
				$4.50

SPAULDING PRINT PAPER COMPANY.

1911.				
Dec.	12.	1o 1 10-yard roll 36″ No. 24 rapid paper	$0.75	
	13.	To 1 10-yard roll 36″ No. 24 rapid paper	.75	
				$1.50

WILLIAM C. SPEAR.

1912.			
May	25.	To rental of Federal truck as per contract under date of April 27, 1912	$75.00

June	22.	To rental of Federal truck as per contract under date of April 27, 1912, for the month of June, 1912.....		$75.00
July	27.	To rental of Federal truck as per contract under date of April 27, 1912, for the month of July, 1912.....		75.00
Aug.	24.	To rental of Federal truck as per contract under date of April 27, 1912, for the month of August, 1912.....		75.00
Sept.	21.	To rental of Federal truck as per contract under date of April 27, 1912, for the month of September, 1912.....		75.00
June	28.	To 1 pedal brake spring.....	$0.50	
		1 thumb screw for emergency brake handle.....	.50	
Aug.	28.	To 1 hour labor.....	.60	
				1.60
Oct.	26.	To rental of Federal truck as per contract under date of April 27, 1912, for the month of October, 1912.....		75.00
Nov.	21.	To rental of Federal truck as per contract under date of April 27, 1912, for the month of November, 1912.....		75.00
Dec.	21.	To rental of Federal truck as per contract dated April 27, 1912, for the month of December, 1912.....		75.00

STANDARD ICE COMPANY.

1912.			
Oct.	1.	To furnishing and delivering ice at the engineer's department office, June 3 to October 1, 1912.....	$5.05

TEMPLE & FARRINGTON COMPANY.

1912.			
Mar.	5.	To binding record of meetings of Committee on Sewers and Drains for 1911.....	$0.85

JOHN B. VARICK COMPANY.

1912.				
Feb.	3.	To 3 lbs. No. 48 Jam. cable twine @ 50c.....		$1.50
	7.	To 1 5x7 film developer.....	$0.35	
		5 5x5 prints.....	.50	
Mar.	6.	To 1 6″ taper file.....	.06	
		1 file handle.....	.02	
				.93
May	8.	To 2 hanks lines @ 10c.....		.20
Aug.	14.	To 220 1½ nickel-plated numbers @ 40c doz.		7.33

Sept.	20.	To 2 igniter batteries @ 20c.....	$0.40	
Oct.	3.	To developing 2 films, 7x5, @ 35c..	.70	
		making 5 7x5 prints @ 5c.....	.50	
	12.	To 2 dry batteries @ 20c.....	.40	
				$2.00

JOSEPH VOGEL & COMPANY.

1912.			
April	24.	To cover irons for engineer's wagon.....	$1.50

WALKER LITHOGRAPH & PUBLISHING COMPANY.

1912.			
Dec.	21.	To city of Manchester, N. H., map (not delivered) on account.....	$481.66

WEST SIDE LUMBER COMPANY.

1912.				
July	27.	To 854 3-ft. grade stakes @ 3c....	$25.62	
May	17.	To 1,000 2-ft. grade stakes @ 1½¢	15.00	
				$40.62

J. ARTHUR WILLIAMS.

1912.			
Nov.	21.	To 1,000 blanks for sewer connection returns	$5.50

SAMUEL J. LORD.

1912.			
Dec.	31.	To portion of salary charged to engineer's department for the year 1912.....	$1,400.03

GEORGE W. WALES.

1912.			
Dec.	31.	To 306 days' services @ $4.20 per day.....	$1,285.20

HARRIE M. YOUNG.

1912.			
Dec.	31.	To 294 days, 3 hours' services @ $3.90 per day	$1,148.16

ALFRED T. DODGE.

1912.				
Dec.	31.	To 306 days' services @ $3.45 per day	$1,055.70	
		27½ hours' extra time @ 46c per hour.....	12.65	
				$1,068.35

HENRY A. WORTHEN.

1912.				
Dec.	31.	To 300 days' services @ $3.00 per day	$900.00	
		8 hours' extra time @ 40c per hour	3.20	
				$903.20

HAROLD M. HASKELL.

1912.			
Dec. 31.	To 306 days' services @ $3.30 per day	$1,009.80	
	55½ hours' extra time @ 44c per hour	24.42	
			$1,034.22

LAWRENCE A. O'CONNOR.

1912.			
Dec. 31.	To 285 days' services @ $1.95 per day	$556.66	
	2 hours' extra time @ 26c per hour	.52	
			$557.18

EDSON W. KEITH.

1912.			
Dec. 31.	To 172 days' services @ $2.55 per day	$439.79	
	2 hours' extra time @ 34c per hour	.68	
	48 days' services @ $2.75 per day	132.00	
			$572.47

HORACE WYMAN.

1912.			
May 25.	To 112 days' services @ $1.80 per day	$201.60	
	1 hour extra time @ 24c per hour	.24	
			$201.84

RALPH E. BAKER.

1912.			
Sept. 28.	To 102 days' services @ $2.50 per day	$255.00	
	7 hours' extra time @ 33⅓c per hour	2.33	
			$257.33

HAROLD L. DAVIS.

1912.			
Sept. 12.	To 61 days' services @ $1.25 per day	$76.83	
	5 hours' extra time @ 16⅔c per hour	.83	
			$77.66

L. PRESCOTT COX.

1912.			
Dec. 31.	To 24 days' services @ $1.25 per day	$30.00	

	37 days' services @ $1.50 per day	$55.50	
	2 hours' extra time @ 16⅔c per hour	.33	
			$85.83

PAUL KIRVAN.

1912. Nov. 23.	To 54 days' services @ $1.75 per day		$94.50

FRANK CARR.

1912. Dec. 31.	To 54 days, 4 hours' services @ $1 per day	$54.53	
	2 hours' extra time @ 14⅓c per hour	.27	
			$54.80

A. D. LEWIS.

1912. Aug. 24.	To 39½ days' services @ $1.25 per day		$49.37

DONALD T. PAIGE.

1912. Aug. 24.	To 34 days, 3½ hours' services @ $1.50 per day	$51.70	
	2 hours' extra time @ 20c	.40	
			$52.10

HAROLD T. BAKER.

1912. Sept. 28.	To 21 days' services @ $2.25 per day		$47.25

RUSSELL W. GARLAND.

1912. July 9.	To 17 days' services @ $1.75 per day		$29.75

FELIX A. LEPAGE.

1912. Jan. 27.	To 30 days' services @ $1.75 per day	$52.50	
	30 hours' extra time @ 23⅓c per hour	7.00	
			$59.50

SUMMARY.

Appropriation to the engineer's department for the year 1912		$10,500.00
Expenses of the engineer's department for the year 1912	$10,500.00	
	$10,500.00	$10,500.00

ORDERS.

Board of mayor and aldermen (meetings)	5
Board of examiners of plumbers (meetings)	7
Committee on streets (meetings)	9
Committee on sewers and drains (meetings)	6
Petitions for new highways	19
Petitions for highway grade	40
Petitions for new sewers	32
Table No. 29 (highway bounds)	48
Table No. 30 (levels for profile)	98
Table No. 30 (plans and profiles)	98
Table No. 31 (miscellaneous orders, field)	400
Table No. 31 (miscellaneous orders, office)	246
Table No. 32 (street numbers, orders)	939
Table No. 33 (cemetery orders, field)	12
Table No. 34 (Board of Public Works, orders)	361
	2,320

FIELD WORK.

Levels for profile for establishing grades (length in feet)	360,129
Levels in Pine Grove cemetery (length in feet)	1,417
Other levels (length in feet)	4,622
Total length of levels in feet	366,168
Surveys of streets and street lines (length in feet)	47,960
Surveys in Pine Grove cemetery (length in feet)	1,980
Surveys for street numbers (length in feet)	31,906
Surveys, miscellaneous (length in feet)	13,126
Total length of surveys in feet	104,966
Street lines marked on ground (length in feet)	12,807
Lot and avenue lines, Pine Grove cemetery (length in ft.)	3,120
Lines for gutters (length in feet)	20,422
Lines for curbs (length in feet)	37,847
Lines for sewers (length in feet)	20,547
Lines for building streets (length in feet)	35,613
Other lines (length in feet)	2,640
Total length of lines marked on ground	132,996
Grades set for sidewalks (length in feet)	20,160
Grades set for gutters (length in feet)	20,422
Grades set for curves (length in feet)	37,847
Grades set for sewers (length in feet)	20,547
Grades set for building streets (length in feet)	35,613
Grades set for paving (length in feet)	10,420
Grades set for Pine Grove cemetery (length in feet)	1,000
Grades set for other purposes (length in feet)	642
Total length in feet of grades set	146,651

Number of new lots staked out in Pine Grove cemetery..	82
Highway bounds set.....	37
Highway bounds reset.....	10
Highway bounds removed.....	1
	48

Batters Set.

Mile brook culvert.
Valley street culvert.

Sewer Plans and Profiles.

Agawam, River road to Davis.
Avon, Sylvester to Ingalls.
Bank, Boynton to Huntress.
Boutwell, Kelley to Bremer.
Bremer, Rimmon to Reed east back.
Bridge, Weston to Highland.
Byron, Brown avenue to Merrimack river. Two plans.
Chestnut east back, Sagamore to Salmon.
Gates, Cartier to Rimmon.
Hall, Harvard to Howe. Two plans.
Hayward, Beech to Maple.
Highland, Bridge to Lowell.
Hillside avenue, Milford southerly.
Howe, Wilson to Hall.
Huntress, Bank southerly.
Lake avenue, Pine to Union.
Laurel, Cass easterly.
McDuffie, South Main to Boynton.
Ray, Carpenter northerly.
River road, Rowell southerly.
Russell, Blodget to Sagamore.
Sullivan, Thornton westerly.
Sylvester, southeast of Forest to Fenton.
Walnut east back, Lowell to Bridge.
Total sewer plans and profiles, 26.

Numbering Plans.

Agnes, Pinard to north of Roosevelt.
Arkwright, West Bridge to Hollis.
Bartlett, Amory westerly.
Bedford, Granite to north of Grove.
Bond, Edgemere avenue southerly.
Boyden, West Bridge to Kidder.
Bridge, West, Elm to Canal.
Brook, West, Elm to Canal.

Canal, West Auburn to West Brook. Four plans.
Central, West, Elm to State.
Charles, Spring to West Bridge.
Claremont, Martin to Manchester & Lawrence Railroad.
Douglas, Turner to Main.
Edgemere avenue, Calef road easterly.
Edgewood avenue, Harrington avenue southerly.
Edmond, Theophile to Roosevelt.
Elmhurst avenue, Elm to east of Calef road.
Elmhurst, West, avenue, Elm westerly.
Elmhurst court, Elmhurst avenue southerly.
Elmwood avenue, Elm to Calef road.
Glenridge, Harrington avenue northerly.
Grove, Bedford to State.
Hampton, Willow to Manchester & Lawrence Railroad.
Harrington avenue, Elm to Calef road.
Henriette, Mast road to Montreal.
Hillcrest avenue, Elm to Calef road.
Hillcrest, West, avenue, Elm to Brown avenue.
Hollis, Elm to Canal.
Hollis court.
Kidder, Elm to Canal.
Kidder court, Elm westerly.
Lancaster avenue, Calef road to Plainfield.
Langdon, Elm to Canal.
Lenox avenue, Lancaster to Plainfield.
Lowell, Weston to east of Burgess. Two plans.
Maplewood, Harrington northerly.
Market, Elm to Canal.
Martin, Willow to Manchester & Lawrence railroad.
Mechanic, Elm to Canal.
Merrimack, West, Elm to Canal.
Middle, Elm to Canal.
Montreal, Theophile to north of Roosevelt.
Newell, Bedford to State.
Oakwood avenue, Elm to Calef road.
Oakwood, West, Elm westerly.
Payson, Bedford to State.
Pinard, Mast road to east of Montreal.
Plainfield, Lancaster avenue to Lenox avenue.
Pleasant, Elm to Canal.
Roosevelt, Mast road to east of Montreal.
Rosedale avenue, Elm to Plainfield.
Rosedale, West, avenue, Elm westerly.
Rosemont avenue, Elm to Calef road.
Spring, Elm to Canal.
Stark, Elm to Canal.

State, Granite to north of Grove.
Sylvester, Douglas to Mast.
Theophile, Mast road to Montreal.
Water, Elm to Canal.
Whitney, West Bridge to Kidder.
Total numbering plans, 64.

MISCELLANEOUS PLANS.

Arlington, Bridge, Maple and Nashua streets, land of E. T. Hardy and others.

Auburn street and Hall road, land of J. H. Mendell.

Beech, South, street, Brown avenue southerly, land of Caroline C. Webster.

Bellevue, Blackstone, Dudley, Garfield, Overland, Public, View and Westminster streets and Calef road, "Pleasant View park."

Berlin, Hamburg and Liverpool streets and Mast road, land of Herman Rodelsperger.

Bismarck, Brock and Forest streets, land of Brooks and Brock.

Black brook northerly, Merrimack river easterly, lots sold by The Forest Products Company.

Bremer to Gardner, Morgan to Youville, proposed Rock Rimmon park, two plans.

Brown avenue, land of A. N. Nettle in Goffe's Falls, also Hose House lot.

Brown avenue, Depot, Dixwell and Trafford streets, River Bank and Whalley roads and River way, "Pine Island Terrace," section 2.

Hall, Hayward and Wilson streets, land of Elliott Manufacturing Company.

Hall, Manning, Morey and Wilson streets, land of George M. French.

Hayward, Cypress and Valley streets, land of A. A. Ainsworth and F. A. Hunton.

High, East, street to Lowell street, Mile Brook culvert and sections.

Hobart and McKinley streets, Hanover street northerly, land sold by S. H. Mead to C. M. Platts.

Krakow and Warsaw avenues, Pine and Willow streets, "Sobieski park."

Mast road and Theophile street, land of Adolph Claus.

Milford street, land of Alphonse Laberge.

Monroe street and River road, land of D. S. Kimball.

Pine Grove cemetery, Highland, Lawn, Riverside and South avenues, Birch lawn and single grave section.

Total miscellaneous plans, 21.

WORKING PLANS.

Agawam, River road to Davis, profile.
Amory, Main to McGregor, profile.

Amory, McGregor to McGregor west back, plan.
Amory, McGregor to McGregor west back, profile.
Appleton, Chestnut to Union, profile.
Auburn, West, Elm to Franklin, grade plan.
Auburn, south back, Pine east back to Maple, two profiles.
Baker, Elm to Calef road, profile.
Bay, Clarke to Carpenter, profile.
Beech, Hanover to Lowell, profile.
Beech, Mitchell to Mystic, profile.
Beech, Norfolk to south of Gold, profile.
Belmont, Hayward to Harvard, profile.
Boutwell east back, Bremer northerly, profile.
Bowman, A to Milford, profile.
Calef road, Baker to Elmwood avenue, two profiles.
Cartier east back, Adams to Schuyler, profile.
Cartier east back, Putnam to Wayne, profile.
Cemetery brook, branch of, north of Lake avenue to Spruce, plan.
Chestnut, north of Webster, profile.
Chestnut, Appleton to Clarke, profile.
Clifford avenue, Massabesic westerly, profile.
Cady, Candia road to Concord & Portsmouth Railroad, profile.
Columbus avenue, Wayne to Putnam, profile.
Coolidge avenue, south of Mason to Dexter, profile.
Cressey lane, Monroe to Monroe south back, profile.
Dexter, Coolidge avenue to Youville, profile.
Dubuque, Amory to Kelley, profile.
East Side park, grade plan.
Elm, Brook to North, two profiles.
Elm, west side, Stark to Mechanic, profile.
Elm, Auburn to Bell, grade plan.
Elm, east side, Merrimack to Central, profile.
Elm, Valley to railroad bridge, profile.
Elm south, Baker to Elmhurst avenue, two profiles.
Elm east back, Hayward to Valley, profile.
Ferry lane, Turner to Second, profile.
Ferry south back, Turner to Second, profile.
Granite, Turner to Main, profile.
Hale, Harvell to Frederick, profile.
Hall, Lake avenue to Spruce, profile.
Hanover, Beech to Maple, profile.
Harvard south back, Wilson to Hall, profile.
Harvard south back, Wilson westerly, profile.
Hayward south back, Elm to Willow, profile.
Hevey east back, Wayne to Columbus avenue, profile.
High south back, Chestnut to Pine, profile.
Howe, Wilson to Hall, profile.

Lake avenue, Hall to Belmont, profile.
Lamprey, Mast road to Rockland avenue, profile.
Lincoln, Auburn to Valley, profile.
Lowell, Elm to Chestnut, profile.
Lowell, Pine to Union, profile.
Lowell north back, Birch to Chestnut, profile.
Main, South, A to Milford, profile.
Maple, Auburn to Valley, profile.
Maple, Lowell to Bridge, profile.
Mason, Hayward to Valley, profile.
Mason, Montgomery to Alsace, profile.
Massabesic, Lake avenue to Belmont, profile.
McGregor, West Bridge to Wayne, profile.
Merrill, Jewett to Mason, profile.
Merrimack, Beech to Lincoln, two profiles.
Mile brook, East High to Lowell, plan and profile.
Monadnock lane, Beech to Maple, profile.
Monmouth south back, Main to McGregor west back, profile.
Monroe south back, Elm to Cressey lane, profile.
Morgan, Amory to Sullivan and Sheehan's line, two profiles.
Nashua, Lowell to Bridge, profile.
North, Elm to Chestnut, profile.
Notre Dame avenue, Amory to Kelley, profile.
Parker common, profile of walks.
Pine east back, Summer to Valley, two profiles.
Porter, Somerville to Hayward, profile.
Prescott, Maple westerly, profile.
Ray, Webster to Clarke, profile.
Ray, Carpenter to Trenton, profile.
Seneca lane, Pine to Union, profile.
Silver, Beech to Maple, profile.
Silver south back, Wilson to Hall, profile.
Somerville, Beech to Maple, profile.
Somerville, west of Porter to Mammoth road, profile.
Sullivan, west of Whipple to Railroad, profile.
Summer, Lincoln to Wilson, profile.
Summer south back, Pine east back to Union, profile.
Titus avenue, Beech to west of Union, profile.
Thornton, Sullivan southerly, profile.
Thornton, Amory southerly, plan.
Union, Hanover to Concord, profile.
Walnut, Blodget to Salmon, profile.
Webster, Chestnut to Beech, two profiles.
Willow, Baker to Beech, profile.
Wilmot, Beech to west of Union, profile.
Youville, Bremer to Amoskeag, two profiles.

Total working plans, 103.

Tracings.

New England Telephone and Telegraph Company, showing location of poles, forty tracings.

Postal Telegraph Company, showing location of poles, one tracing.

Total tracings, 41.

Blue Prints.

Details of catch-basin curbs, five prints.

Details of corner curbs, six prints.

Hanover street, Beacon street to Mammoth road, plan and profile, four prints.

New England Telephone and Telegraph Company, showing location of poles, eighty prints.

Postal Telegraph Company, showing location of poles, two prints.

Total blue prints, 97.

Summary.

Plans and profiles (sewers)	26
Numbering plans	64
Miscellaneous plans	21
Working plans	103
Tracings	41
Blue prints	97
Assessment book, sheets	5
Sectional plans	2
	359

Six tracings showing city sewers that have been brought up to date.

Maps brought up to date, five.

Plans brought up to date, 164.

Plans made for establishing grade on streets not laid out, 20,137 feet.

Plans made for establishing grade on laid-out streets, 39,320 feet.

Total, 59,447 feet.

Lot owners looked up, 14,298 feet.

Sewer Licenses.

At a meeting of the board of mayor and aldermen, November 19, 1897, the city engineer was instructed "to examine the books in his office and to present to said board a list of property-owners who had neglected to pay the license fee required by the city laws and ordinances for entrance to the city sewers."

The records were examined and a list compiled, giving the name of the property-owner, and the location of the lot, the street frontage and the license fee due upon each and every piece of occupied property within one hundred feet of a public sewer.

The said list was given in hand to the city clerk, as clerk of the board of mayor and aldermen.

The list comprised 1,017 names and a notice was sent to each one by the city clerk. A summarized statement of the ground covered to January 1, 1913, follows, to wit:

Number of names January 1, 1898			1,017
Paid during 1898		277	
Granted free during 1898		76	
Paid prior to 1898, located during year		121	
Paid during 1899		24	
Granted free during 1899		12	
Paid during 1900		2	
Not connected		1	
Paid during 1901		2	
Granted free during 1901		1	
Paid during 1902		2	
Paid during 1903		3	
Paid during 1904		4	
Paid during 1906		1	
Paid during 1907		3	
Granted free during 1907		1	
Paid during 1908		2	
Paid during 1909		2	
Granted free during 1909		1	
Paid during 1910		1	
Paid during 1912		6	
Paid prior to 1898, not located	60		
Paid previously	3		
Paid in part	1		
Covered by old permit	1		
Not recorded paid, receipts shown	5		
Recorded paid, no record of cash received	2		
Claims to have paid, no record	1		
Licenses taken out, not paid	17		
Not heard from	385		
Total number not settled January 1, 1912		475	
		1,017	1,017

Number of licenses granted new sewer enterers during 1912	204
Number of free licenses granted sewer enterers during 1912	6
Total number of licenses granted during 1912	210

Amount of money recorded as collected from new sewer enterers during 1912		$3,008.75
(All moneys are collected by the city clerk.)		

STREET NUMBERS.

Figures on hand January 1, 1912	196	
Figures ordered during 1912	2,369	
Letters on hand January 1, 1912	51	
Figures used during 1912		2,167
Figures on hand January 1, 1913		665
Letters used during 1912		2
Letters on hand January 1, 1913		49
	2,886	2,886

Numbers assigned during 1912	315
Numbers replaced during 1912	40
Numbers changed during 1912	584
	939

(The expense of street numbers is charged to the appropriation for the engineer's department.)

COAL TAR AND GRANITE BLOCK PAVING.

Tables Nos. 1, 2, 3 and 4 give the location, number of square yards, price per square yard, total cost and date when measured of all coal tar concrete and granite blocks laid during the year as follows: Table No. 1, sidewalks (new); Table No. 2, sidewalks (repairs); Table No. 3, street paving (new); Table No. 4, street paving (repairs); Table No. 5, summary of Tables Nos. 1, 2, 3 and 4.

TABLE No. 1.

SIDEWALKS (New).—ROBIE CONSOLIDATED CONCRETE CO., CONTRACTOR.

Material, Tar Concrete.

STREET.	LOCATION.	Square yards.	Per square yard.	Total cost.	Measured.
East Side Park	Central Street, Hall Street, Lake Ave. and diagonal walks..	587,765	$0.40	$235.10	May 15, 1912

TABLE No. 2.

SIDEWALKS (Repairs).—ROBIE CONSOLIDATED CONCRETE CO., CONTRACTOR.

Material, Tar Concrete.

STREET.	LOCATION.	Square yards.	Per square yard.	Total cost.	Measured.
Granite.....	South walk on bridge.....	401.473	$0.30	$120.44	May 15, 1912
"	North walk on bridge	383.373	0.30	115.01	June 19, 1912
Lake avenue.....	South side at Massabesic.....	41.477	0.30	12.44	May 20, 1912
Main, South.....	West walk on bridge.....	74.372	0.30	22.31	" 15, 1912
		900.695		$270.20	

TABLE No. 3.

STREET PAVING (New).

ROBIE CONSOLIDATED CONCRETE CO., CONTRACTORS.

Material, Tar Concrete.

STREET.	LOCATION.	Square yards.	Per square yard.	Total cost.	Measured.
Elm, east side..	Prospect to Langdon.....	649 91	$1.00	$649.91	Aug. 1, 1912
" " ..	" "	379.	.50	189.50	" 1, 1912
Somerset lane..	Main to McGregor	265.87	1.25	332.33	" 1, 1912
		1 244.78		$1,171.74	

TABLE No. 4.

STREET PAVING (Repairs).

ROBIE CONSOLIDATED CONCRETE CO., CONTRACTORS.

Material, Tar Concrete.

STREET.	LOCATION.	Square yards.	Per square yard.	Total cost.	Measured.
Amherst.....	Elm to Vine..	10	$0.60	$6.00	June 4, 1912
"	Elm to Vine.....	2	.35	.70	" 4, 1912
Chestnut.....	Merrimack to Concord...	34.938	.60	20.96	" 4, 1912
"	Merrimack to Concord...	29.361	.35	10.27	" 4, 1912
Concord	Elm to Vine.....	7.595	.60	4.56	" 4, 1912
Granite.....	Turner to Main.....	53.516	.60	32.11	" 6, 1912
"	Turner to Main.....	190.487	.35	66.67	" 6, 1912
Hanover.....	Chestnut to Pine.....	896.97	.50	448.48	Aug. 1, 1912
"	Chestnut to Pine.....	38.88	.35	13.60	" 1, 1912
"	Beech to Union.....	88.068	.60	52.84	May 28, 1912
"	Beech to Union.....	128 05	.35	44.82	" 28, 1912
Lake ave.....	Chestnut to Elm.....	78.61	.35	27.51	June 6, 1912
"	Chestnut to Elm...	21.75	.60	13.05	" 6, 1912
"	Massabesic to west of engine house.....	209.531	.50	104.77	May 20, 1912
Main, east side.	Somerset	22.22	.35	7.78	Aug. 1, 1912
Manchester. ..	Elm to Chestnut.....	4.055	.60	2.43	June 4, 1912
"	Elm to Chestnut.....	4.416	.35	1.55	" 4. 1912
Maple.....	Lake ave. to Merrimack..	29.11	.60	17.47	May 28, 1912
"	Lake ave. to Merrimack..	26.775	.35	9.37	" 28, 1912
Merrimack	Elm to Chestnut.....	19.59	.60	11.75	June 4, 1912
"	Elm to Chestnut.....	39.333	.35	13.77	" 4, 1912
"	Maple to Beech.....	54.563	.60	32.74	May 28, 1912
"	Maple to Beech.....	11	.35	3.85	" 28, 1912
" west.	Elm to Franklin.	7.805	.60	4.68	June 6, 1912
Monadnock lane	Chestnut, easterly.....	30.66	.35	10.73	" 6, 1912
Pine.....	Spruce to Lake ave.....	14.166	.60	8.50	" 6, 1912
"	Spruce to Lake ave.....	61.982	.35	21.69	" 6, 1912
Union	Hanover to Lowell.....	31.589	.60	18.95	" 4, 1912
"	Hanover to Lowell.....	40.499	.35	14.17	" 4, 1912
"	Lake ave. to Merrimack..	16.16	.60	9.70	" 6, 1912
"	Lake ave. to Merrimack..	10.166	.35	3.56	" 6, 1912
Vine.....	Amherst to Concord.....	12.14	.60	7.28	" 4, 1912
"	Amherst to Concord.....	5.28	.35	1.85	" 4, 1912
		2,231.265		$1,048.16	

TABLE No. 5.

SUMMARY OF TABLES Nos. 1, 2, 3 and 4.

DESCRIPTION.	CONTRACTOR.	Table No.	Square yards.	Cost.
Sidewalks, new	Robie Consolidated Concrete Co	1	587.765	$235.10
Sidewalks, repairs	Robie Consolidated Concrete Co	2	900 695	271.20
Street paving, new	Robie Consolidated Concrete Co	3	1,294.78	1,171.74
Street paving, repairs	Robie Consolidated Concrete Co	4	2,231.265	1,048.16
			5,014.505	$2,726.20

Abstract Report of the Committee on Streets for the Year 1912.

PERSONNEL OF THE COMMITTEE.

Alderman from Ward 1, Charles W. Richards, *chairman*.
Alderman from Ward 7, Herbert A. Salls.
Alderman from Ward 8, Arthur W. Dinsmore, to August 6, 1912.
Alderman from Ward 2, Albert L. Clough, from September 11, 1912.
Clerk of the committee, Samuel J. Lord.

Tables Nos. 6, 7, 8, 9, 10 and 11 have been compiled to be used in the annual report of the engineer's department in lieu of citing the records of the committee on streets in detail. The tables give information pertaining to the petitions that have been acted upon by the committee during the year 1912, also highways laid out, discontinued, widened and straightened and grades ordered established by the board of mayor and aldermen during the year.

Table No. 6 is a list of the petitions for new highways that have been acted upon by the committee during the year.

Table No. 7 is a list of the petitions for establishing grades that have been acted upon by the committee during the year.

Table No. 8 is a list of highways that have been laid out by the board of mayor and aldermen during the year.

Table No. 9 is a list of highway grades ordered established by the board of mayor and aldermen during the year.

Table No. 10 is a list of highways that have been discontinued by the board of mayor and aldermen during the year.

Table No. 11 is a list of highways that have been widened and straightened by the board of mayor and aldermen during the year.

Distances are given in feet.

TABLE No. 6.

PETITIONS FOR NEW HIGHWAYS ACTED UPON BY THE COMMITTEE ON STREETS DURING 1911.

LOCATION.	LIMITS.	Distance.	Width.	Petition of	Date of petition.	Granted.
Amory	Main to Main west back	100	100	Francis C. Miville	July 2, 1912	July 2, 1912
Amory	Main to Main west back	100	50.100	O. F. Dubois	Sept. 27, 1912	Sept. 27, 1912
Bremer	Hevey to Alsace	1,080	50	Napoleon Duhaime	Aug. 9, 1912	Sept. 30, 1912
Brown	Chestnut to Union	838.73	50	Geo. H. Brown	May 29, 1912	July 6, 1912
Burgess	Lowell to East High	313.96	50	William A. Burgess	May 15, 1912	July 6, 1912
Conant	Montgomery to 130 feet westerly	130	50	Henry F. Dietsch	June 3, 1912	Sept. 30, 1912
Delaware ave	Hanover to Paris	405.94	50	Isaac Grishaver	July 23, 1912	Sept. 30, 1912
Howe	Lincoln to Wilson	620	50	C. P. Sturtevant	Apr. 27, 1912	July 6, 1912
Howe	Wilson to Hall	461.66	50	Walter LaMarche	Aug. 25, 1911	Sept. 30, 1912
Laurel	Highland to 184 feet easterly	184	40	Mrs. Clara Tufts	Nov. 10, 1911	Sept. 30, 1912
Morgan	Kelley to Bremer	550	50	Lucien F. Loiselle	Mar. 21, 1912	Sept. 30, 1912
Summer	Lincoln to Wilson	625	50	J. N. St. Laurent	Apr. 10, 1912	July 6, 1912
Thornton	Janelle ave. to Amory	330	50.12	Ubald Smith	Mar. 4, 1912	Sept. 30, 1912
Wilson	Clay to Vinton	2,273.92	50	Albert Martel	Aug. 18, 1911	Sept. 30, 1912
		8,013.21				

SUMMARY.

Whole number of highway petitions acted upon	14		Total length of highways petitioned for	8,013.21
Granted a hearing		14	Granted a hearing	8,013.21
	14	14		8,013.21 8,013.21

TABLE No. 7.

PETITIONS FOR ESTABLISHING GRADE ACTED UPON BY THE COMMITTEE ON STREETS DURING 1912.

Location.	Limits.	Distance.	Width.	Petition of	Date of Petition.	Granted.
Amory	Main to Main west back	100	100	Francis C. Miville	July 2, 1912	July 2, 1912
Amory	Main to Main west back	100	50.100	O. F. Dubois	Sept. 27, 1912	Sept. 27, 1912
Beech, South	Beech ave. to Norfolk	500	50	Geo. H. Dunbar	Apr. 8, 1912	July 6, 1912
Boutwell	Bremer to Amoskeag Mfg. Co.'s line	475	50	Isidore Myre	May 10, 1910	Sept. 30, 1912
Bremer	Hevey to Alsace	1,030	50	Napoleon Duhaime	Aug. 9, 1912	Sept. 30, 1912
Brown	Chestnut to Union	838.73	50	Geo. H. Brown	May 29, 1912	July 6, 1912
Burgess	Lowell to East High	313.96	50	Wm. A. Burgess	May 15, 1912	July 6, 1912
Columbus ave	Putnam to Wayne	550	50	G. Lemieux	Sept. 16, 1912	Sept. 30, 1912
Conant	Montgomery to 130 feet westerly	130	50	Henry F. Dietsch	June 3, 1912	Sept. 30, 1912
Delaware ave	Hanover to Paris	355.94	50	Isaac Grishaver	June 3, 1912	Sept. 30, 1912
Howe	Lincoln to Wilson	620	50	C. P. Sturtevant	Apr. 27, 1912	July 6, 1912
Howe	Wilson to Hall	461.66	50	Walter LaMarche	Aug. 25, 1911	Sept. 30, 1912
Joliette	Bremer to 500 feet northerly	500	50	Arsene Brunelle	July 2, 1912	Sept. 30, 1912
Laurel	Highland to 184 feet easterly	184	50	Mrs. Clara Tufts	Nov. 10, 1911	Sept. 30, 1912
Laval	Kelley to Bremer	550	50	Jos. Gentes	May 8, 1912	Sept. 30, 1912
Morgan	Kelley to Bremer	550	50	Lucien F. Loiselle	Mar. 21, 1912	Sept. 30, 1912
Somerville	Beech to Maple	602	50	B. H. Piper Bldg. Co.	Mar. 26, 1912	July 6, 1912
Summer	Lincoln to Wilson	625	50	J. N. St. Laurent	Apr. 10, 1912	July 6, 1912
Thornton	Janelle ave. to Amory	330	50.12	Ubald Smith	Mar. 4, 1912	Sept. 30, 1912
Valley	Union to Beech	490	50	Israel Stratton	Aug. 16, 1912	Sept. 30, 1912
Wilson	Harvard to Somerville	581	50	Philias Graveline	Apr. 29, 1912	July 6, 1912
Wilson	Clay to Vinton	2,223.92	50	Albert Martel	Aug. 18, 1911	Sept. 30, 1912
		12,111.21				

SUMMARY.

Whole number of grade petitions acted upon	22		Total length of highway grades petitioned for	12,111.21
Granted a hearing		22	Granted a hearing	12,111.21
	22	22	12,111.21	12,111.21

TABLE No. 8.

HIGHWAYS LAID OUT IN 1912 BY THE BOARD OF MAYOR AND ALDERMEN.

Location.	Limits.	Length.	Width.	Laid out.	Petition of.	Date of Petition.	Hearing Recommended.
Bremer	Hevey to Alsace	1,080.00	50	Nov. 12, 1912	Napoleon Duhaime	Aug. 9, 1912	Sept. 30, 1912
Burgess	Lowell to East High	313.96	50	Sept. 27, 1912	William A. Burgess	May 15, 1912	July 6, 1912
Clay	Hall to Belmont	307.56	50	Apr. 24, 1912	Moses Morey	Sept. 18, 1911	To M. & Ald.
Delaware avenue	Hanover to Paris	405.94	50	Nov. 8, 1912	Isaac Grishaver	July 23, 1912	Sept. 30, 1912
Howe	Lincoln to Wilson	620.00	50	Oct. 18, 1912	C. P. Sturtevant	Apr. 27, 1912	July 6, 1912
Howe	Wilson to Hall	461.66	50	Nov. 8, 1912	Walter LaMarche	Aug. 25, 1911	Sept. 30, 1912
Laurel	Highland to 184 feet easterly	184.00	40	Nov. 8, 1912	Mrs. Clara Tufts	Nov. 10, 1911 Mar. 21, 1912	Sept. 30, 1912 Sept. 30, 1912
Morgan	Kelley to Bremer	550.00	50	Nov. 8, 1912	Lucien F Loiselle	May 11, 1911	May 31, 1911
Russell avenue	Russell to Linden	400.00	40	Apr. 24, 1912	Freeman Higgins	Apr. 10, 1912	July 6, 1912
Summer	Lincoln to Wilson	525.00	50	Sept. 27, 1912	J. N. St. Laurent		
		4,948.12					

TABLE No. 9.

HIGHWAY GRADES ORDERED ESTABLISHED BY THE BOARD OF MAYOR AND ALDERMEN IN 1912.

LOCATION.	LIMITS.	Distance.	Width.	PETITION OF.	Date of Petition.	Ordered Passed.
Amory*	Main to Main west back	100.00	100	Francis C. Miville	July 2, 1912	Aug. 6, 1912
Amory	Main to Main west back	100.00	50-100	O. F. Dubois	Sept. 27, 1912	Nov. 29, 1912
Beech, South	Beech avenue to Norfolk	500.00	50	George H. Dunbar	Apr. 8, 1912	Sept. 27, 1912
Boutwell	Bremer to Amoskeag Mfg. Co.'s line	475.00	50	Isidore Myre	May 10, 1912	Nov. 8, 1912
Bremer	Hevey to Alsace	1,030.00	50	Napoleon Duhaime	Aug. 9, 1912	Nov. 12, 1912
Bridge†	Birch to Chestnut	232.50	60	A. L. Gadbois	July 2, 1912	Aug. 6, 1912
Burgess	Lowell to East High	313.96	50	William A. Burgess	May 15, 1912	Sept. 27, 1912
Clay	Hall to Belmont	307.56	50	Moses Morey	Sept. 18, 1911	Apr. 24, 1912
Columbus avenue	Putnam to Wayne	550.00	50	G. Lemieux	Sept. 10, 1912	Nov. 8, 1912
Delaware avenue	Hanover to Paris	355.94	50	Isaac Grishaver	July 23, 1912	Nov. 8, 1912
Howe	Lincoln to Wilson	620.00	50	C. P. Sturtevant	Apr. 27, 1912	Oct. 18, 1912
Howe	Wilson to Hall	461.66	50	Walter LaMarche	Aug. 25, 1911	Nov. 8, 1912
Juliette	Bremer to 500 ft. northerly	500.00	50	Arsene Brunelle	July 2, 1912	Nov. 8, 1912
Laurel	Highland to 184 ft. easterly	184.00	40	Mrs. Clara Tufts	Nov. 10, 1911	Nov. 8, 1912
Laval	Kelley to Bremer	550.00	50	Joseph Gentes	May 8, 1912	Nov. 8, 1912
Morgan	Kelley to Bremer	550.00	50	Lucien F. Loiselle	Mar. 21, 1912	Nov. 8, 1912
Russell avenue	Russell to Linden	400.00	40	Freeman Higgins	May 11, 1911	Apr. 24, 1912
Summer	Lincoln to Wilson	625.00	50	J. N. St. Laurent	Apr. 10, 1912	Sept. 27, 1912
Valley	Union to Beech	490.00	50	Israel Stratton	Aug. 16, 1912	Nov. 8, 1912
Whittemore Ave.	Railroad to Sullivan	229.65	50	R. N. Whittemore	Sept. 17, 1912	Oct. 18, 1912
Wilson†	Harvard to Somerville	581.00	50	Philias Graveline	Apr. 29, 1912	Sept. 27, 1912
		9,156.27				

*Declared illegal.
†Changing grade.

TABLE No. 10.

HIGHWAYS DISCONTINUED IN 1912 BY THE BOARD OF MAYOR AND ALDERMEN.

Location.	Limits.	Distance.	Width.	Discontinued.	Petition of.	Date of Petition.	Hearing Recommended.
Pine east back.....	Amherst to Concord....	298.00	20	Oct. 21, 1912	Frank P. Carpenter.....	Oct. 1, 1912	To M. & Ald.

TABLE No. 11.

HIGHWAYS WIDENED AND STRAIGHTENED IN 1912 BY THE BOARD OF MAYOR AND ALDERMEN.

Location.	Limits.	Distance.	Width.	Date of Action.	Petition of.	Date of Petition.	Hearing Recommended.
Amory	Main to Main west back...	100.00	100	Aug. 6, 1912	Francis C. Miville.....	July 2, 1912	July 2, 1912
Amory	Main to Main west back...	100.00	50-100	Nov. 29, 1912	O. F. Dubois.....	Sept. 27, 1912	Sept. 27, 1912
Whittemore Ave..	Railroad to Sullivan.....	229.65	50	Oct. 18, 1912	Rodney N. Whittemore.	Sept. 17, 1912	To M. & Ald.
		429.65					

Abstract Report of the Committee on Sewers and Drains for the Year 1912.

PERSONNEL OF THE COMMITTEE.

Alderman from Ward 8, Arthur W. Dinsmore, *chairman*, to August 6, 1912.

Alderman from Ward 6, Maurice Watson, from September 11, 1912.

Alderman from Ward 10, Peter J. Charron.

Alerman from Ward 9, Stephen T. Martel.

Tables Nos. 12, 13, 14, 15, 16, 17 and 18 have been compiled to be used in the annual report of the engineer's department in lieu of citing the records of the committee on sewers and drains in detail. The tables give information pertaining to the petitions, orders for sewers passed by the city councils, sewers built and not built up to January 1, 1913.

Table No. 12 is a list of petitions that have been acted upon during the year, also the manner in which and date when each petition was acted upon and disposed of by the committee.

Table No. 13 is a list of sewers ordered in up to January 1, 1912, giving the distance built, distances built in excess of order, and distances remaining unbuilt up to January 1, 1913.

Table No. 14 is a list of sewers ordered built during the year 1912, giving distances built, distances ordered in, that are unnecessary, and distances remaining unbuilt up to January 1, 1913.

Table No. 15 is a list of sewers built in 1912, not ordered in by the board of mayor and aldermen.

Table No. 16 is a list of pipe removed where sewers have been rebuilt.

Table No. 17 is a list of sewers ordered in but not built up to January 1, 1913. The table is compiled from the first, second, fourth and eighth columns of Tables Nos. 12 and 13.

Table No. 18 is a summary of Tables Nos. 13 and 14.

TABLE No. 12.

PETITIONS ACTED UPON BY THE COMMITTEE ON SEWERS AND DRAINS DURING THE YEAR 1912.

Location.	Limits.	Distance.	Petition of.	*Date of Petition.	Granted.
Alsace	Bremer, northerly 350 feet	350	Henri Mayer	Feb. 21, 1912	Mar. 22, 1912
Beech	Shasta to Willow	825	R. P. Stevens	Oct. 21, 1909	Mar. 22, 1912
Bell south back	Pine east back to Union	374	James Sullivan	July 13, 1907	Feb. 2, 1912
Boynton	Bank to Allen	1,225	Benjamin J. Mack	Feb. 3, 1912	Mar. 22, 1912
Bremer	Joliette to Laval	250	J. Onesime Duval	Feb. 3, 1912	Mar. 22, 1912
Brock	Milford, northerly 295 feet	295	Frank Bogner	Aug. 23, 1912	Oct. 22, 1912
Burgess*	Lowell to East High	364	William E. Felch	May 31, 1912	Oct. 22, 1912
Cartier east back	South of Sullivan, southerly 50 feet	50	Antoine Sevigny	Apr. 23, 1912	June 7, 1912
Cilley road	Wilson to Hall	511	R. P. Stevens	Aug. 11, 1911	Mar. 22, 1912
Conant	Montgomery, westerly 115 feet	115	Thomas R. Milligan	Mar. 11, 1912	Apr. 24, 1912
Congress	Amory, southerly 350 feet	350	Otto Miller	Jan. 3, 1912	Feb. 2, 1912
Cypress	Somerville to Clay	325	C. W. Danforth	July 29, 1908	Mar. 22, 1912
D	Mast, westerly 300 feet	300	Albert Whitney	Apr. 27, 1912	June 12, 1912
Gates	Dubuque, westerly 200 feet	200	John Bloman	Mar. 20, 1912	June 7, 1912
Hall	Cilley road to Holly avenue	742	R. P. Stevens	Aug. 11, 1911	Mar. 22, 1912
Harvard	Belmont to Taylor	602	Mary Dobbins	July 29, 1912	Oct. 22, 1912
Hayward	East of Union to Beech	355	Zepherin L. Desrochers	Mar. 28, 1912	June 7, 1912
Holly avenue	Hall, easterly 1,300 feet	1,300	R. P. Stevens	Aug. 11, 1911	Mar. 22, 1912
Howe	Wilson to Hall	512	Walter LaMarche	Aug. 25, 1911	Mar. 22, 1912
Hubbard	North of Amherst, northerly	200	P F. McKelvie	July 18, 1912	Oct. 22, 1912
Kelley	Boutwell to Morgan	517	Eugene Bailey	Jan. 23, 1912	Mar. 22, 1912
Laurel	Cass, easterly 200 feet	200	Clara A. Tufts	Mar. 18, 1912	June 7, 1912
Pine east back	Bell south back to Valley	144	Louis Plourde	Jan. 9, 1912	Feb. 2, 1912
Reed east back	Kelley to Bremer	600	George Blanchet	Oct. 9, 1911	Feb. 2, 1912
Revere avenue	Candia road to Longwood avenue	526	Aime Lambert	Aug. 17, 1912	Oct. 22, 1912
Russell	Blodget, southerly 260 feet	260	John W. Burpee	Sept. 25, 1911	Feb. 2, 1912
Somerville	East of Beech to Portsmouth R. R.	350	B. H. Piper Building Co.	Apr. 1, 1912	Apr. 19, 1912
Stevens	Baker, southerly 200 feet	200	Homer B. Bean	Oct. 10, 1912	Oct. 22, 1912
Wayland avenue	Mammoth road to Revere avenue	590	Jean B. Morin	Aug. 27, 1912	Sept. 9, 1912
Willow	Shasta, southerly 200 feet	200	Timothy McKenna	Oct. 16, 1911	Mar. 22, 1912
Wilson	Dix to Cilley road	771	R. P. Stevens	Aug. 11, 1911	Mar. 22, 1912
		13,603			

*Laid over June 17.

TABLE No. 13.

SEWERS ORDERED IN BUT NOT BUILT UP TO JANUARY 1, 1912.

Location.	Limits.	Distance.	Date of Order.	Built During 1912.		Not Needed.	Not Built.
				Distance.	Excess.	Distance.	Distance.
Adams	Carpenter to Trenton	531	Dec. 19, 1902	....	....	....	531
Agawam	River road to Davis	74	Dec. 6, 1910	....	....	....	74
Ainsworth avenue	Hayward to Young	155	May 31, 1905	....	....	....	155
Amherst	Union to Ashland	2,600	May 2, 1893	....	....	....	2,600
Albert	Harrison to Brook	366	Jan. 23, 1906	....	....	....	366
Amory	Alsace to Joliette	60	Oct. 7, 1902	....	....	....	60
Amory	Congress to Kimball	450	Dec. 6, 1910	202	....	....	248
Auburn	Cypress, easterly	300	May 2, 1899	....	....	....	300
Auburn south back	Hall, easterly	150	Jan. 7, 1896	....	....	....	150
Baker	Elm to Calef road	486	Aug. 3, 1909	488	....	2	....
Bartlett	Sullivan, southerly	127	Mar. 6, 1906	....	....	....	127
Bay	Clarke to Carpenter	683	Apr. 14, 1903	....	....	....	683
Beacon	Concord to Lowell	161	Dec. 6, 1910	....	....	....	161
Beech	Somerville to Shasta	192	Nov. 23, 1906	....	....	....	192
Beech	Bridge to Orange	573	Dec. 6, 1900	....	....	....	573
Bell	Second to Hale	295	Aug. 14, 1911	....	....	....	295
Belmont	Old Bridge to Bridge	200	Jan. 7, 1896	....	....	....	200
Blaine	Second to Hiram	228	Dec. 6, 1892	....	....	....	228
Blaine	Second to Third	107	May 2, 1905	....	....	....	107
Boutwell	Kelley, southerly	18	Nov. 7, 1911	....	....	....	18
Boutwell	Kelley, northerly	400	Nov. 7, 1911	....	....	....	400
Bowman	Mast to Milford	455	Oct. 7, 1902	....	....	....	455
Brook	Maple to Oak	192	June 2, 1907	....	....	....	192
Byron	Brown avenue to Josselyn	475	Sept. 17, 1909	250	....	....	225
Calef road	Baker, northerly	49	June 4, 1901	48	1	....	....
Cedar south back	Beech, westerly	175	May 5, 1896	....	....	....	175
Cedar south back	Maple to Lincoln	96	May 13, 1903	....	....	....	96
Central	Milton to Beacon	307	Sept. 6, 1898	....	....	....	307
Central south back	Chestnut to Union	814	July 9, 1901	....	....	....	814
Chester	Lincoln to Ashland	277	July 5, 1904	....	....	....	277
Chestnut	Carpenter to Trenton	147	Oct. 7, 1902	....	....	....	147
Clarke	Elm to Chestnut	290	Apr. 14, 1903	....	....	....	290
Clay	Union to Beech	492	Nov. 27, 1908	....	....	....	492
Clay	Lincoln to Wilson	232	July 21, 1908	....	....	....	232

TABLE No. 13.—*Continued.*

Location.	Limits.	Distance.	Date of Order.	Built During 1912.		Not Needed.	Not Built.
				Distance.	Excess.	Distance.	Distance.
Clay	Taylor to Cypress	246	July 21, 1908	....	....	....	246
Colby	West Hancock to Log	270	June 12, 1906	....	....	....	270
Columbus	Amory, southerly	128	July 26, 1899	....	....	....	128
Concord	Pine east back to Union	152	Sept. 12, 1899	....	....	....	152
Concord	Dutton, westerly	97	Feb. 2, 1904	....	....	....	97
Concord	Hall, easterly	86	Sept. 6, 1897	....	....	....	86
Concord	Weston to Hubbard	101	Sept. 27, 1905	....	....	....	101
Cumberland	Amory to Monitor	156	Aug. 3, 1909	....	....	....	156
Cumberland	Amory to Monitor	650	Dec. 6, 1910	....	....	....	650
Dix	Maple to Lincoln	598	Aug. 14, 1911	501	....	....	97
Dix	Lincoln to Wilson	670	Dec. 6, 1910	....	....	....	670
Dix	Wilson to Hall	89	Sept. 27, 1905	....	....	....	89
Dix	Taylor to Cypress	442	July 15, 1904	....	....	....	442
Dover	Clinton, northerly	160	Sept. 4, 1894	....	....	....	160
Dutton	Concord, easterly	300	Feb. 2, 1904	....	....	....	300
Elm	Railroad bridge to Elm avenue	1,285	May 6, 1890	....	....	....	1,285
Elm	Monroe south back to Clarke	599	June 4, 1895	....	....	....	599
Elm	Trenton to Rowell	448	Feb. 4, 1896	....	....	....	448
Foster avenue	Valley to Hayward	140	July 14, 1896	....	....	....	140
Front	Eddy to north of hotel	2,800	Sept. 5, 1893	....	....	....	2,800
George	North of Milford to Charlestown avenue	32	Oct. 7, 1902	....	....	....	32
Grove south back	Wilson, easterly	200	Nov. 2, 1897	....	....	....	200
Hall	Clay to Dix	250	Dec. 19, 1902	....	....	....	250
Hall	Lowell to East High	143	July 25, 1902	....	....	....	143
Hall road	Massabesic to Nelson	601	Aug. 5, 1898	....	....	....	601
Hale	Schiller, southerly	450	Nov. 9, 1894	....	....	....	450
Harrison	Linden, easterly	52	Nov. 23, 1906	....	....	....	52
Harrison	Maple to Oak	350	Oct. 3, 1899	....	....	....	350
Harrison	East of Linden to Hall	577	Dec. 6, 1910	100	....	....	477
Harrison	Belmont, westerly	65	Sept. 1, 1896	....	....	....	65
Harvard	Lincoln to Wilson	670	Dec. 6, 1910	....	....	....	670
Harvell	Hale to South Main	700	Nov. 9, 1894	....	....	....	700
Hayward	Beech to Maple	142	Dec. 6, 1910	....	....	....	142
Hayward	Ainsworth avenue to Cypress	148	Sept. 7, 1897	....	....	....	148
Hayward	Maple to Lincoln	389	May 17, 1906	389	....	....	....

Hayward	Union, easterly	85	Feb. 5, 1907	....	....	....	85
Hevey east back	South of Amory to Columbus Ave.	396	July 10, 1893	....	....	....	396
High, East	Beacon to Weston	192	July 5, 1904	....	....	....	192
High, East	Highland to Burgess	332	Dec. 6, 1910	313	....	19	....
Highland	Lowell to East High	74	Aug. 14, 1911	....	....	....	74
Hosley	Grove to Summer	116	June 26, 1903	....	....	....	116
Hospital avenue	Chase avenue to Massabesic	142	Sept. 14, 1904	....	....	....	142
Huntress	Prince to McDuffie	163	Nov. 3, 1903	....	....	....	163
Huntress	McDuffie to Bank	240	Dec. 6, 1910	66	....	....	174
Jones	Nelson to Benton	285	Aug. 5, 1898	....	....	....	285
Josselyn	Byron to Varney	150	Sept. 27, 1909	....	....	150	....
Knowlton	Hayward, southerly	67	Nov. 23, 1906	....	....	....	67
Knowlton	Hayward, southerly	492	July 21, 1908	....	....	....	492
Laval	Kelley, northerly	1,000	Nov. 7, 1911	385	....	....	615
Lincoln	Harvard to Silver	306	Dec. 6, 1910	310	4	....	....
Lincoln	Silver to Clay	248	July 21, 1908	....	....	....	248
Mammoth road	No. 155 to Young	633	Nov. 27, 1908	....	....	....	633
Mammoth road	Massabesic to Nelson	32	May 2, 1899	....	....	....	32
Mammoth road	Nelson, northerly	500	Aug. 5, 1898	....	....	....	500
Mammoth road	North of Nelson to Hanover	1,564	June 28, 1911	284	....	....	1,280
Maple	Prospect to Harrison	99	Oct. 19, 1905	....	....	....	99
Massabesic	Hall road to Mammoth road	831	Mar. 2, 1899	....	....	....	831
Mast	Rochelle avenue to Brock	176	Dec. 31, 1901	....	....	....	176
Merrill	Jewett, easterly	34	June 5, 1900	....	....	....	34
Montgomery east back	Kelley to Bremer	150	Dec. 31, 1901	....	....	....	150
Oakland avenue	Revere avenue to Woodland avenue	1,070	Dec. 13, 1905	....	....	....	1,070
Pine	Silver to Plummer	320	Oct. 3, 1899	....	....	....	320
Pine east back	South of Concord to Concord	160	Sept. 12, 1899	....	....	....	160
Prescott	Maple, easterly	21	June 26, 1903	....	....	....	21
Prescott	Hall, westerly	80	Oct. 1, 1907	....	....	....	80
Prospect	Hall, easterly	100	Sept. 3, 1895	....	....	....	100
Ray	Carpenter to Trenton	478	Sept. 18, 1911	360	....	....	118
Reed east back	Amory to Kelley	104	Oct. 1, 1907	....	....	....	104
Riley avenue	South of Hayward, southerly 150 ft.	75	Aug. 3, 1909	....	....	....	75
Rimmon	South of Wayne to Putnam	164	Aug. 6, 1901	....	....	....	164
Rimmon east back	Kelley to Mason	800	Sept. 7, 1897	....	....	....	800
Russell	South of Blodget to Sagamore	770	Oct. 3, 1899	780	10	....	....
Russell	Blodget to Sagamore	541	Nov. 7, 1911	....	....	541	....
Sagamore	Chestnut to Pine	294	July 31, 1903	....	....	....	294
Sagamore	Linden, easterly 150 feet	50	Sept. 7, 1909	....	....	....	50
Salmon	Beech to Ash	126	Sept. 7, 1909	....	....	....	126
Schiller	Hale to South Main	708	Nov. 10, 1896	....	....	....	708
Second	Bell, southerly	60	Aug. 14, 1911	....	....	....	60
Shasta	Maple to Lincoln	600	Dec. 6, 1910	....	....	....	600
Somerville	Union to Maple	512	Aug. 2, 1898	....	....	347	165
Somerville	Hall to west of Cypress	184	Dec. 19, 1902	....	....	....	184
Somerville	Jewett, easterly 250 feet	250	Aug. 3, 1909	....	....	....	250

TABLE No. 13.—*Concluded.*

Location.	Limits.	Distance.	Date of Order.	Built During 1912.		Not Needed.	Not Built.
				Distance.	Excess.	Distance.	Distance.
Spruce, East	Kenney, westerly	95	Apr. 2, 1907	....	....	....	95
Sullivan	Thornton, westerly 500 feet	146	June 7, 1910	....	....	....	146
Summer	Hall to Belmont	247	June 27, 1910	....	....	....	247
Taylor	South of Valley, southerly	75	Oct. 2, 1900	....	....	....	75
Taylor	Dix to Cilley road	574	June 26, 1911	576	2	....	....
Thornton	Wayne to Putnam	155	Mar. 6, 1906	....	....	....	155
Union	Clarke to Trenton	180	July 2, 1895	....	....	....	180
Union	Trenton, northerly	401	Oct. 7, 1902	....	....	....	401
Union east back	South of Christian brook, southerly	50	Aug. 6, 1895	....	....	....	50
Valley	Cypress, westerly	133	Jan. 4, 1897	....	....	....	133
Valley	Elm to Wilson	2,396	Nov. 7, 1893	....	....	....	2,396
Valley	East of Jewett to Massabesic	645	Nov. 7, 1911	20	....	....	625
Varney	Josselyn to Merrimack river	550	Sept. 27, 1909	....	....	550	....
Walnut	Salmon, southerly	105	Jan. 29, 1897	....	....	....	105
Walnut	Webster, northerly	168	July 31, 1903	....	....	....	168
Walnut east back	Salmon, northerly	88	Nov. 10, 1896	....	....	....	88
Warner	Wilkins, southerly 150 feet	24	Aug. 3, 1909	....	....	....	24
Weston	Bridge to Lowell	687	Dec. 6, 1910	....	....	....	687
Williams	Milford to Mast	522	Oct. 3, 1899	....	....	....	522
Willow	Silver to Baker	100	Dec. 4, 1900	100	....	....	....
Woodbine avenue	Longwood avenue to Candia road	341	June 26, 1911	....	....	....	341
Youville	Kelley, northerly 200 feet	92	Aug. 15, 1910	....	....	....	92
		49,891		5,172	18	1,608	43,129

TABLE No. 14.

SEWERS ORDERED IN DURING THE YEAR 1912.

Location.	Limits.	Distance.	Date of Order.	Built During 1912.		Not Needed.	Not Built.
				Distance.	Excess.	Distance.	Distance.
Alsace	Bremer, northerly 350 feet	350	May 7, 1912	....	....	....	350
Beech	Shasta to Willow	825	May 7, 1912	....	....	....	825
Beech	Salmon to North	525	Dec. 3, 1912	....	....	....	525
Bell south back	Pine east back to Union	374	Feb. 14, 1912	....	....	374*	....
Boynton	Bank to Allen	1,225	May 7, 1912	....	....	....	1,225
Bremer	Joliette to Laval	250	May 7, 1912	250	....	....	....
Brock	Milford, northerly 295 feet	295	Nov. 19, 1912	220	....	....	75
Burgess	East High to Lowell	364	Nov. 19, 1912	234	....	....	130
Cartier east back	South of Sullivan, southerly 50 feet	50	July 16, 1912	....	....	....	50
Cilley road	Wilson to Hall	511	Nov. 7, 1912	....	....	....	511
Conant	Montgomery, westerly 115 feet	115	May 22, 1912	108	....	7	....
Congress	Amory, southerly 350 feet	350	Feb. 14, 1912	150	....	....	200
Cypress	Clay to Somerville	325	May 7, 1912	....	....	....	325
D	Mast, westerly 300 feet	300	July 16, 1912	....	....	....	300
Gates	Dubuque, westerly 200 feet	200	July 16, 1912	65	....	....	135
Hall	Cilley road to Holly avenue	742	May 7, 1912	....	....	....	742
Harvard	Belmont to Taylor	602	Nov. 19, 1912	....	....	....	602
Hayward	East of Union to Beech	355	July 16, 1912	....	....	....	355
Highland	East High to Bridge	323	Mar. 5, 1912	....	....	323†	....
Holly avenue	Hall, easterly 1,300 feet	1,300	May 7, 1912	....	....	....	1,300
Howe	Wilson to Hall	512	May 7, 1912	512	....	....	....
Hubbard	North of Amherst, northerly 200 ft.	200	Nov. 19, 1912	....	....	....	200
Joliette	North of Kelley, northerly 500 ft.	500	May 7, 1912	447	....	....	53
Kelley	Boutwell to Morgan	517	May 7, 1912	517	....	....	....
Laurel	Cass, easterly 200 feet	200	July 16, 1912	238	38	....	....
Pine east back	Bell south back to Valley	134	Feb. 14, 1912	....	....	....	134
Reed east back	Kelley to Bremer	600	Feb. 14, 1912	....	....	....	600
Revere avenue	Candia road to Longwood avenue	526	Nov. 19, 1912	526	....	....	....
Russell	Blodget to Harrison	750	Feb. 14, 1912	240	....	510‡	....
Somerville	East of Beech to Portsmouth R. R.	350	May 22, 1912	347	....	3	....
Stevens	Baker, southerly 200 feet	200	Nov. 19, 1912	22	....	....	178
Wayland avenue	Mammoth road, easterly 200 feet	200	May 7, 1912	180	....	20	....
Wayland avenue	Mammoth road to Revere avenue	590	Sept. 17, 1912	180	....	....	410
Willow	Shasta, southerly 200 feet	200	May 7, 1912	302	102	....	....
Wilson	Dix to Cilley road	771	May 7, 1912	257	....	....	514
		15,631		4,795	140	1,237	9,739

*Built in 1911. †Built in 1910. ‡Previously built.

TABLE No. 15.

SEWERS BUILT IN 1912 WITHOUT AN ORDER.

Location.	Limits.	Distance.
Alfred||	At Hanover	109
Auburn south back*	Maple, westerly	68
Baker	Willow, westerly	198
Bank	Boynton to Huntress	370
Beech||	Spruce to Spruce south back	127
Bell†	Elm, easterly	40
Candia road	Orchard avenue, easterly	150
Candia road	Revere avenue to Woodbine avenue	513
Coolidge Ave. west back	Labrecque south back, southerly	16
Douglas	West, easterly	40
Elm*	Hayward, southerly	72
Everett	Thayer, southerly	184
Grove	Elm, easterly	142
Hall	Howe, northerly	77
Hall‡	Merrimack to Manchester	300
Hanover*	Merrimack, westerly	93
Hanover*	Merrimack, easterly	178
Hayward†	Willow, easterly	40
Highland†	At Hanover	48
Hubbard†	At Hanover	50
Huntress	Bank, southerly	248
Kelley§	Hevey to Hevey east back	126
Kelley	Morgan, westerly	48
Krakow avenue†	Pine, easterly	20
Labrecque south back	Coolidge avenue west back to Rimmon	245
Laval	Bremer, southerly	216
Laval	Bremer, northerly	351
Main	At Conant south back	43
Maple*	Auburn south back, southerly	136
Maple	Blodget, northerly	198
Mast‡	At Bobbin Shop	98
Merrill*	Elm, easterly	34
Merrill†	Maple, easterly	54
Merrimack¶	Hall, westerly	112
Merrimack	East of Cass, easterly	94
Merrimack*	Hanover, westerly	91
Pine*	Willow, northerly	90
Rimmon	Gates, southerly	88
Rimmon	Labrecque south back, north and south	239
Spruce, East*	Beech, easterly	408
Union*	Summer south back, northerly	100
Willow	Hayward, southerly	307
		6,161

||Part relaid.
*For cesspools.
†Leader.
‡Relaid.
§Top sewer.
¶Overflow sewer.

TABLE No. 16.

PIPE REMOVED WHERE SEWERS HAVE BEEN RELAID.

Location.	Limits.	Pipe Removed.			Pipe Laid.		
		Material.	Size in Inches.	Length in Feet.	Material.	Size in Inches.	Length in Feet.
Alfred	At Hanover	Akron	10	48	Akron	10	48
Beech	Spruce to Spruce south back	Cement	9	56	Akron	10	56
Hall	Merrimack to Manchester	Cement	12	300	Akron	15	300
Mast	At Bobbin shop	Portland	20	98	Akron	20	98
				502			502

TABLE No. 17.

SEWERS ORDERED IN BUT NOT BUILT UP TO JANUARY 1, 1913.

Location.	Limits.	Distance.	Date of Order.
Adams	Carpenter to Trenton	531	Dec. 19, 1902
Agawam	River road to Davis	74	Dec. 6, 1910
Ainsworth avenue	Hayward to Young	155	May 31, 1905
Amherst	Union to Ashland	2,600	May 2, 1893
Albert	Harrison to Brook	366	Jan. 23, 1906
Alsace	Bremer, northerly	350	May 7, 1912
Amory	Alsace to Joliette	60	Oct. 7, 1902
Amory	Congress to Kimball	248	Dec. 6, 1910
Auburn	Cypress, easterly	300	May 2, 1899
Auburn south back	Hall, easterly	150	Jan. 7, 1896
Bartlett	Sullivan, southerly	127	Mar. 6, 1906
Bay	Clarke to Carpenter	683	Apr. 14, 1903
Beacon	Concord to Lowell	161	Dec. 6, 1910
Beech	Shasta to Willow	825	May 7, 1912
Beech	Somerville to Shasta	192	Nov. 23, 1906
Beech	Bridge to Orange	573	Dec. 6, 1910
Beech	Salmon to North	525	Dec. 3, 1912
Bell	Second to Hale	295	Aug. 14, 1911
Belmont	Old Bridge to Bridge	200	Jan. 7, 1896
Blaine	Second to Hiram	228	Dec. 6, 1892
Blaine	Second to Third	107	May 2, 1905
Boutwell	Kelley, southerly	18	Nov. 7, 1911
Boutwell	Kelley, northerly	400	Nov. 7, 1911
Bowman	Mast to Milford	455	Oct. 7, 1902
Boynton	Bank to Allen	1,225	May 7, 1912
Brock	Milford, northerly	75	Nov. 19, 1912
Brook	Maple to Oak	192	June 2, 1907
Burgess	East High to Lowell	130	Nov. 19, 1912
Byron	Brown avenue to Josselyn	225	Sept. 27, 1909
Cartier east back	South of Sullivan, southerly	50	July 16, 1912
Cedar south back	Beech, westerly	175	May 5, 1896
Cedar south back	Maple to Lincoln	96	May 13, 1903
Central	Milton to Beacon	307	Sept. 6, 1898
Central south back	Chestnut to Union	814	July 9, 1901
Chester	Lincoln to Ashland	277	July 5, 1904
Chestnut	Carpenter to Trenton	147	Oct. 7, 1902
Cilley road	Wilson to Hall	511	May 7, 1912
Clarke	Elm to Chestnut	290	Apr. 14, 1903
Clay	Union to Beech	492	Nov. 27, 1908
Clay	Lincoln to Wilson	232	July 21, 1908
Clay	Taylor to Cypress	246	July 21, 1908
Colby	West Hancock to Log	270	June 12, 1906
Columbus	Amory, southerly	128	July 26, 1899
Concord	Pine east back to Union	152	Sept. 12, 1899
Concord	Dutton, westerly	97	Feb. 2, 1904
Concord	Hall, easterly	86	Sept. 6, 1887
Concord	Weston to Hubbard	101	Sept. 27, 1905
Congress	Amory, southerly	200	Feb. 14, 1912
Cumberland	Amory to Monitor	156	Aug. 3, 1909
Cumberland	Amory to Monitor	650	Dec. 6, 1910
Cypress	Clay to Somerville	325	May 7, 1912
D	Mast, westerly	300	July 16, 1912
Dix	Maple to Lincoln	97	Aug. 14, 1911
Dix	Lincoln to Wilson	670	Dec. 6, 1910
Dix	Wilson to Hall	89	Sept. 27, 1905
Dix	Taylor to Cypress	442	July 15, 1904
Dover	Clinton, northerly	160	Sept. 4, 1894
Dutton	Concord, easterly	300	Feb. 2, 1904
Elm	Railroad bridge to Elm Ave.	1,285	May 6, 1890
Elm	Monroe south back to Clarke	599	June 4, 1895
Elm	Trenton to Rowell	448	Feb. 4, 1896
Foster avenue	Valley to Hayward	140	July 14, 1895
Front	Eddy to north of hotel	2,800	Sept. 5, 1892
Gates	Dubuque, westerly	135	July 16, 1912

TABLE No. 17.—*Continued.*

Location.	Limits.	Distance.	Date of Order.
George	North of Milford to Charleston avenue	32	Oct. 7, 1902
Grove south back	Wilson, easterly	200	Nov. 2, 1897
Hall	Cilley road to Holly avenue	742	May 7, 1912
Hall	Clay to Dix	250	Dec. 19, 1902
Hall	Lowell to East High	143	July 25, 1902
Hall road	Massabesic to Nelson	601	Aug. 5, 1898
Hale	Schiller, southerly	450	Nov. 9, 1894
Harrison	Linden, easterly	52	Nov. 23, 1906
Harrison	Maple to Oak	350	Oct. 3, 1899
Harrison	East of Linden to Hall	477	Dec. 6, 1910
Harrison	Belmont, westerly	65	Sept. 1, 1896
Harvard	Lincoln to Wilson	670	Dec. 6, 1910
Harvard	Belmont to Taylor	602	Nov. 19, 1912
Harvell	Hale to South Main	700	Nov. 9, 1894
Hayward	East of Union to Beech	355	July 16, 1912
Hayward	Beech to Maple	142	Dec. 6, 1910
Hayward	Ainsworth avenue to Cypress	148	Sept. 7, 1897
Hayward	Union, easterly	85	Sept. 5, 1907
Hevey east back	South of Amory to Columbus avenue	396	July 10, 1892
High, East	Beacon to Weston	192	July 5, 1904
Highland	Lowell to East High	74	Aug. 14, 1911
Holly avenue	Hall, easterly	1,300	May 7, 1912
Hosley	Grove to Summer	116	June 26, 1903
Hospital avenue	Chase avenue to Massabesic	142	Sept. 14, 1904
Hubbard	North of Amherst, northerly	200	Nov. 19, 1912
Huntress	Prince to McDuffie	163	Nov. 3, 1903
Huntress	McDuffie to Bank	174	Dec. 6, 1910
Joliette	North of Kelley, northerly	53	May 7, 1912
Jones	Nelson to Benton	285	Aug. 5, 1898
Knowlton	Hayward, southerly	67	Nov. 23, 1906
Knowlton	Hayward, southerly	492	July 21, 1908
Laval	Kelley, northerly	615	Nov. 7, 1911
Lincoln	Silver to Clay	248	July 21, 1908
Mammoth road	No. 155 to Young	633	Nov. 27, 1908
Mammoth road	Massabesic to Nelson	32	May 2, 1899
Mammoth road	Nelson, northerly	500	Aug. 5, 1898
Mammoth road	North of Nelson to Hanover	1,280	June 26, 1911
Maple	Prospect to Harrison	99	Oct. 19, 1905
Massabesic	Hall road to Mammoth road	831	Mar. 2, 1899
Mast	Rochelle avenue to Brock	176	Dec. 31, 1901
Merrill	Jewett, easterly	34	June 5, 1900
Montgomery east back	Kelley to Bremer	150	Dec. 31, 1901
Oakland avenue	Revere avenue to Woodland avenue	1,070	Dec. 13, 1905
Pine	Silver to Plummer	320	Oct. 3, 1899
Pine east back	Bell south back to Valley	134	Feb. 14, 1912
Pine east back	South of Concord to Concord	160	Sept. 12, 1899
Prescott	Maple, easterly	21	June 26, 1903
Prescott	Hall, westerly	80	Oct. 1, 1907
Prospect	Hall, easterly	100	Sept. 3, 1895
Ray	Carpenter to Trenton	118	Sept. 18, 1911
Reed east back	Amory to Kelley	104	Oct. 1, 1907
Reed east back	Kelley to Bremer	600	Feb. 14, 1912
Riley avenue	South of Hayward, southerly 150 feet	75	Aug. 3, 1909
Rimmon	South of Wayne to Putnam	164	Aug. 6, 1901
Rimmon east back	Kelley to Mason	800	Sept. 7, 1897
Sagamore	Chestnut to Pine	294	July 31, 1903
Sagamore	Linden, easterly 150 feet	50	Sept. 7, 1909
Salmon	Beech to Ash	126	Sept. 7, 1909
Schiller	Hale to South Main	708	Nov. 10, 1896
Second	Bell, southerly	60	Aug. 14, 1911
Shasta	Maple to Lincoln	600	Dec. 6, 1910
Somerville	Union to Maple	165	Aug. 2, 1898

TABLE No. 17.—*Concluded.*

Location.	Limits.	Distance.	Date of Order.
Somerville	Hall to west of Cypress	184	Dec. 19, 1902
Somerville	Jewett, easterly 250 feet	250	Aug. 3, 1909
Spruce, East	Kenney, westerly	95	Apr. 2, 1907
Stevens	Baker, southerly	178	Nov. 19, 1912
Sullivan	Thornton, westerly 500 feet	146	June 7, 1910
Summer	Hall to Belmont	247	June 27, 1910
Taylor	South of Valley, southerly	75	Oct. 2, 1900
Thornton	Wayne to Putnam	155	Mar. 6, 1906
Union	Clarke to Trenton	180	July 2, 1895
Union	Trenton, northerly	401	Oct. 7, 1902
Union east back	South of Christian brook, southerly	50	Aug. 6, 1895
Valley	Cypress, westerly	133	Jan. 4, 1897
Valley	Elm to Wilson	2,396	Nov. 7, 1893
Valley	East of Jewett to Massabesic	625	Nov. 7, 1911
Walnut	Salmon, southerly	105	Jan. 29, 1897
Walnut	Webster, northerly	168	July 31, 1903
Walnut east back	Salmon, northerly	88	Nov. 10, 1896
Warner	Wilkins southerly 150 feet	24	Aug. 3, 1909
Wayland avenue	Mammoth road to Revere Ave	410	Sept. 17, 1912
Weston	Bridge to Lowell	687	Dec. 6, 1910
Williams	Milford to Mast	522	Oct. 3, 1899
Wilson	Dix to Cilley road	514	May 7, 1912
Woodbine avenue	Longwood Ave to Candia road	341	June 26, 1911
Youville	Kelley, northerly 200 feet	92	Aug. 15, 1910
		52,868	

TABLE No. 18.

SUMMARY.

Table No. 13, column 3 (ordered in to January 1, 1912)	49,891	.....
Table No. 13, column 5 (built)	.....	5,172
Table No. 13, column 6 (built in excess of order)	18	.....
Table No. 13, column 7 (not needed)	.....	1,608
Table No. 13, column 8 (not built)	.....	43,129
Table No. 14, column 3 (ordered in during 1912)	15,631	.....
Table No. 14, column 5 (built)	.....	4,795
Table No. 14, column 6 (built in excess of order)	140	.....
Table No. 14, column 7 (not needed)	.....	1,237
Table No. 14, column 8 (not built)	.....	9,739
	65,680	65,680

Sewers built in 1912 of those ordered in to January 1, 1912, feet	9,486
Sewers built in 1912 without orders (feet)	5,659
Sewers relaid in 1912 without orders (feet)	502
Total length of sewers built in 1912 (feet)	15,647

Sewerage System.

Table No. 19 gives the location, material, size, length, manholes new, manholes rebuilt, lampholes rebuilt, lampholes new, lampholes removed, house connections and cesspool connections built during the year 1912.

Table No. 20 gives the material, size and length of all public sewers in the city of Manchester January 1, 1913. This table gives the total length in feet of each size of sewer and the number of manholes on each size, also total length in feet and miles of each material.

Table No. 21 is a summary of the sewerage system by years from January 1, 1880, to January 1, 1913. It gives the length in miles constructed and cost each year, also the average cost per mile for each year. The third column gives the number of miles constructed to date each year. It is noted that on January 1, 1880, there were 17.06 miles constructed, the cost not being recorded. January 1, 1890, there were recorded 2,003 house connections. Beginning with this date columns four and five give the number of connections recorded each year and the total number recorded to date each year.

TABLE No. 19.

SEWERS BUILT IN 1912.

Location.	Limits.	Material.	Size in inches.	Length in feet (new).	Length in feet (relaid).	Manholes (new).	Manholes (rebuilt).	Lampholes (new).	Lampholes (removed).	House connections.	Cesspool connections.
Alfred	Hanover	Akron	10	61	48	1				2	
Amory	Congress, westerly	"	10	202		1				7	
Auburn south back	Maple, westerly	"	10	68		1					1
Baker	Elm to Calef road	"	10	488		2				12	6
"	Willow, westerly	"	10	198				1		7	
Bank	Boynton to Huntress	"	12	370		2				13	
Beech	Spruce to Spruce south back	"	10	71	56	2				2	1
Bell	Elm, easterly	"	12	40		1					1
Bremer	Joliette to Laval	"	10	250		1				1	
Brock	Milford, northerly	"	10	220		1					
Burgess	East High, southerly	"	10	234				1		9	
Byron	West of Brown ave., westerly	"	10	250		1				10	
Calef road	Baker, northerly	"	10	48							
Candia road	Orchard ave., easterly	"	12	150				1		4	
"	Revere ave. to Woodbine ave.	"	10	513		2				16	
Conant	Montgomery, westerly	"	10	108				1		2	
Congress	Amory, southerly	"	10	150				1		3	
Coolidge ave. W. B.	Labrecque south back, southerly	"	10	16							
Dix	Maple, easterly	"	10	501		2				20	
Douglas	West, easterly	"	8	40		1					
Elm	Hayward, southerly	"	10	72							1
Everett	Thayer, southerly	"	10	184				1		6	4
Gates	Rimmon, easterly	"	10	65				1		1	
Grove	Elm, easterly	"	12	142				1		6	
Hall	Howe, northerly	"	10	77		1		1		1	
"	Merrimack to Manchester	"	15		300	2				6	5
Hanover	" westerly	"	10	93		1		1			2
"	" easterly	"	12	178		1					
Harrison	Hall, westerly	"	10	100		2				4	
Hayward	Willow, easterly	"	10	40						2	
"	East of Maple to east of Lincoln	"	12	428		2				14	2
High, East	Highland to Burgess	"	10	313		1				7	

Highland	At Hanover	"	10	48							3
Howe	Wilson to Hall	"	12	512		2				21	
Hubbard	At Hanover	"	10	50		1					
Huntress	Bank, southerly	"	10	248				1		10	
"	" northerly	"	10	66				1		3	
Joliette	South of Bremer to north of Bremer	"	10	447		1		1		16	
Kelley	Hevey to Hevey east back	"	10	126		1					
"	Boutwell to Lafayette	"	20	251		1					7
"	Lafayette to Morgan	"	18	266		1					4
"	Morgan, westerly	"	15	48				1		3	
Krakow ave	Pine, easterly	"	10	20							
Labrecque S. B	Coolidge ave. west back to Rimmon	"	10	245		1				7	
Laurel	Cass, easterly	"	10	238		1		1		9	
Laval	Kelley, northerly	"	10	385		1				11	
"	Bremer, southerly	"	10	216		1				7	
"	" northerly	"	10	351		1		1		14	
Lincoln	Harvard to Silver	"	15	310		1				1	
Main	At Conant south back	"	10	43		2					
Mammoth road	North of Lake ave. to Hanover	"	12	284		3				2	1
Maple	Auburn south back, southerly	"	10	136		1					4
"	Blodget, northerly	"	10	198						5	
Mast	At Bobbin Shop	"	20		98	1					1
Merrill	Elm, easterly	"	10	34							2
"	Maple, easterly	"	12	54							
Merrimack	Hall, westerly	"	15	112							
"	East of Cass, easterly	"	10	94				1	1	4	
"	Hanover, westerly	"	10	91				1			2
Pine	Willow, northerly	"	12	90		1					2
Ray	North of Carpenter, northerly	"	10	360		3		1		9	
Revere ave	Candia road to Longwood ave.	"	12	526		3				14	
Rimmon	Gates, southerly	"	12	88		1				2	
"	Labrecque south back, north and south	"	10	239		1		2		8	
Russell	Sagamore to Blodget	"	12	540		2				17	
"	Blodget, southerly	"	10	240		1				4	
Somerville	East of Beech, easterly	"	12	347		2		1	1	13	
Spruce, East	Beech, easterly	"	10	408		2				16	7
Stevens	Baker, southerly	"	10	22							
Taylor	Dix to Cilley road	"	12	576		2				17	
Union	Summer south back, northerly	"	10	100		1					2
Valley	Massabesic, westerly	"	12	20							
Wayland ave	Mammoth road, easterly	"	10	180				1		3	
Willow	Shasta, southerly	"	24	302		1				6	
"	Hayward, southerly	"	12	267		1				8	2
"	" "	"	10	40							
Wilson	Dix to Howe	"	20	257		1				8	
				15,145	502	70		23	2	393	60

TABLE No. 20.

MATERIAL, SIZE AND LENGTH OF SEWERS JANUARY 1, 1913.

Size in Inches.	Akron.	Portland (old).	Portland (new).	Cement.	Earthen.	Brick.	Cast-iron.	Steel riveted.	Total feet.	Man-holes.
6	330								330	1
8	15,215	90	601				24		15,930	28
9				6,989					6,989	1
10	139,750	2,890	11,730		1,132		90		155,592	462
12	111,988	1,060	8,269	17,881	2,055		34		141,287	340
14							24		24	
15	42,591		5,338	490			70		48,489	169
18	6,813	770	1,815	860		4,867			15,125	46
20	16,124		4,374				158		20,556	73
22	1,372		958						2,330	10
24	26,176		5,583	735		1,900	36	67	34,497	165
16x24				1,697					1,697	7
27			465						465	3
29						1,600			1,600	
36						506	277.5	39	822.5	1
42						446			446	
44						1,195			1,195	2
48								372	372	3
57						1,400			1,400	2
60						285			285	1
17x26						1,506			1,506	4
20x30						1,197			1,197	5
22x33						849			849	3
24x36						11,051			11,051	39
26x39						514			514	2
29½x44						4,530			4,530	10
30x46						1,360			1,360	1
32x48						3,279			3,279	10
36x54						1,067			1,067	4
38x57						4,388			4,388	8
40x44						790			790	4
42x63						3,104			3,104	9
50x75						712			712	2
Total feet	360,359	4,810	39,033	28,652	3,187	46,546	713.5	478	483,778.5	1,415
Total miles	68.250	0.911	7.392	5.427	0.603	8.816	0.135	0.09	91.624	

TABLE No. 21.

SUMMARY OF SEWERAGE SYSTEM SINCE 1880.

Year.	Miles constructed during year.	Miles constructed to date.	House connections recorded during year.	House connections recorded to date.	Cost of sewers.	Average cost per mile.
1880	1.62	18.66	.....	.....	$19,919.40	$12,295.92
1881	2.18	20.84	.....	.....	23,895.12	10,961.06
1882	3.37	24.21	.....	.....	24,148.13	7,165.65
1883	2.54	26.75	.....	.....	21,452.05	8,445.69
1884	1.73	28.48	.....	.....	21,548.60	12,445.84
1885	1.56	30.04	.....	.....	28,122.84	18,027.46
1886	2.15	32.19	.....	.....	44,479.15	20,687.97
1887	1.44	33.63	.....	.....	19,893.92	13,815.22
1888	1.73	35.36	.....	.....	31,154.19	19,008.20
1889	2.66	38.02	.....	2,003	27,513.73	10,343.51
1890	1.81	39.83	64	2,067	39,297.97	21,711.58
1891	3.08	42.91	153	2,220	55,409.73	17,990.17
1892	3.13	46.04	214	2,434	39,724.65	12,691.68
1893	3.31	49.35	191	2,625	51,392.15	15,526.33
1894	2.91	52.26	258	2,883	46,116.01	15,847.42
1895	3.98	56.24	255	3,138	71,859.36	18,055.11
1896	4.73	60.97	237	3,375	66,408.87	14,099.33
1897	*3.93	64.44	283	3,658	36,258.41	9,226.05
1898	*3.76	67.62	520	4,178	34,939.51	9,292.42
1899	*1.54	69.03	208	4,386	16,683.39	10,819.31
1900	*1.14	70.17	231	4,617	13,748.41	12,091.58
1901	1.74	71.91	227	4,844	14,724.39	8,462.29
1902	*1.95	73.46	186	5,030	20,973.05	10,755.41
1903	1.41	74.87	190	5,220	17,330.32	12,291.00
1904	*3.22	76.75	300	5,520	25,574.79	11,520.17
1905	*1.91	78.51	319	5,839	23,437.19	12,269.78
1906	*1.35	79.69	163	6,002	21,313.20	15,787.55
1907	*2.04	81.63	199	6,201	25,631.95	12,564.68
1908	*1.48	83.03	198	6,399	12,818.59	8,661.21
1909	*1.40	84.43	173	6,572	16,055.97	11,468.55
1910	*2.54	86.96	312	6,884	30,124.03	11,906.73
1911	*2.03	88.76	280	7,164	22,217.24	10,944.48
1912	*2.96	91.62	393	7,557	27,938.57	9,438.70
Total	.....	.....	.....	.....	† $992,104.88	

* Includes old sewers relaid.

† Total cost for 33 years.

Abstract Report of the Board of Examiners of Plumbers.

In accordance with an act (chapter 55, Laws of 1899) passed by the New Hampshire state legislature, entitled "An act authorizing the examination of plumbers and regulating the practice of plumbing and house draining," a board of examiners of plumbers was appointed by the mayor as follows: William K. Robbins of the board of health, Christian L. Wolf, a master plumber, and Samuel J. Lord, engineer (William K. Robbins president and Samuel J. Lord clerk).

Following is a statement of the expenditures of the board for the year 1912:

JOHN B. CLARKE COMPANY.

1912.				
Aug.	13.	To printing 300 reports board of examiners of plumbers in with engineer's department report, 6 pages @ 65c per page...		$3.90

PIKE & HEALD COMPANY.

1912.				
Jan.	22.	To 62 lbs. lead pipe @ 6½c.....	$4.03	
		19¼ lbs. wiping solder @ 28c..	5.39	
				$9.42
Feb.	27.	To repairing plumber's fire pot...	$0.15	
June	7.	To 14 lbs wiping solder @ 28c....	3.92	
		31 lbs lead pipe @ 6½c.....	2.02	
				$6.09
July	8.	To 50 lbs lead pipe @ 6½c.....	$3.25	
		22½ lbs. wiping solder @ 28c...	6.30	
				$9.55
Oct.	2.	To 14½ lbs. wiping solder @ 28½c.	$4.13	
		29½ lbs. 1½" lead pipe @ 7⅔c.	2.26	
				$6.39
Nov.	4.	To 4¾ lbs. wiping solder @ 34c.....		$1.62
Dec.	5.	To 67½ lbs. lead pipe @ 7⅔c.....	$5.18	
		19½ lbs. solder @ 34c.....	6.63	
	12.	To 1¼ lbs. oakum @ 6c.....	.08	
				$11.89

SUMMARY.

Appropriated to the board of examiners of plumbers for the year 1912.....		$50.00
Expense of the board during the year.....	$48.86	
Balance unexpended.....	1.14	
	$50.00	$50.00

Renewal fees received for 38 plumbers' certificates @ 50c each (a renewal fee of 50c is required by state law)	$19.00	
Renewal fees received for 55 plumbers' licenses @ 50c each (required by law)	27.50	
Examination fee for 18 plumbers' licenses @ $1.00 each (required by law)	18.00	
Paid to the city treasurer (the state law requires all fees to be paid into the city treasury)		$64.50
	$64.50	$64.50

The above amounts include $0.50 collected from a delinquent plumber.

Table No. 22 gives the name, address and number of the application of each and every person making renewal application to the board for a plumber's certificate. This table also gives the class of the certificate (master or journeyman), the number of the certificate, the dates of renewal and expiration of the certificate, also the renewal fee paid by the applicant.

Table No. 23 gives the name, address and number of the application of each and every person making renewal application to the board for a plumber's license. This table also gives the class of the license (master or journeyman), the number of the license, dates of renewal and expiration of the license and also the renewal fee paid by the applicant.

Table No. 24 gives the name, address and number of application of each and every person making application to the board for a plumber's license. This table also gives the class of the license (master or journeyman), the number of the license, dates of issue and expiration of the license, also fee paid by the applicant.

Table No. 25 is a summary of Tables Nos. 22, 23 and 24.

TABLE No. 22.

PLUMBERS' CERTIFICATES RENEWED DURING THE YEAR 1912.

NAME.	RESIDENCE.	No. of Application.	Renewal Fee Received.	Class of Plumber.	Number of Certificate.	Date of Renewal.	Date of Expiration.
Amlaw, Ashley A.	777 Grove	19	$0.50	Master	18	Aug. 31, 1912	Aug. 31, 1913
Bangs, Charles S.	251 Concord	77	.50	"	47	"	"
Blood, Frank W.	397 Merrimack	76	.50	"	84	"	"
Briggs, Thomas J.	60 Parker	34	.50	"	65	"	"
Burke, John E.	345 Lake avenue	24	.50	Journeyman	22	"	"
Caron, Hermenegelde	60 McGregor	63	.50	Master	77	"	"
Clarke, Charles H.	928 Beech	100	.50	Journeyman	76	"	"
Coleman, Michael J.	268 Walnut	7	.50	Master	7	"	"
Colby, James A.	286 Merrimack	105	.50	"	82	"	"
Connors, John A.	10 Grove St., Lowell, Mass.	17	.50	Journeyman	85	"	"
Ewart, John	Arlington, Mass.	62	.50	Master	100	"	"
Florand, Joseph	97 Orange	35	.50	Journeyman	30	"	"
Geisler, John	79 Turner	33	.50	"	29	"	"
Goodwin, William E.	Hooksett road	41	.50	Master	35	"	"
Griffin, Frank W.	340 Harrison	26	.50	"	24	"	"
Guiney, John J.	Lake Shore road	104	.50	Journeyman	59	"	"
Heald, Frank E.	289 Concord	92	.50	Master	70	"	"
Hill, Lucius E.	852 Elm	3	.50	Journeyman	3	"	"
Knoettner, George	245 Railroad	46	.50	"	36	"	"
Knoettner, Oscar	326 Main	59	.50	Master	79	"	"
Lane, Frank A.	731 Beech	79	.50	"	48	"	"
Larkin, John F.	320 Cedar	75	.50	"	46	"	"
Ladouceur, Albert V.	585 Amory	25	.50	Journeyman	23	"	"
Leighton, Frank D.	78 Liberty	23	.50	Master	61	"	"
Lewis, Fred S.	165 Mammoth road	40	.50	"	34	"	"
Longval, Delphis	78 Laurel	51	.50	Journeyman	68	"	"
Marchand, Joseph F.	577 Rimmon	55	.50	Master	42	"	"
Mayo, Albert F.	261 Belmont	9	.50	Journeyman	9	"	"
McKenna, John J.	101 Amherst	18	.50	"	17	"	"
McKenna, Daniel J.	101 Amherst	65	.50	"	92	"	"
Merrill, Edwin W.	166 Blodget	74	.50	Master	54	"	"
O'Brien, Martin	123 Amherst	16	.50	"	16	"	"
O'Toole, Thomas J.	264 Grove	60	.50	Journeyman	86	"	"
Rivard, Zephirin H.	Hooksett Rd., R.F.D. No. 1	11	.50	"	11	"	"
Thornton, John J.	34 Old Bridge	45	.50	"	87	"	"
Wolf, Adolph A.	36 Second	69	.50	"	45	"	"
Wolf, Christian L.	36 Clinton	15	.50	Master	15	"	"

TABLE No. 23.

PLUMBERS' LICENSES RENEWED DURING THE YEAR 1912.

NAME.	RESIDENCE.	No. of Application.	Renewal Fee Received.	Class of Plumber.	Number of License.	Date of Renewal.	Date of Expiration.
Amlaw, Roy A.	518 Manchester	71	$0.50	Journeyman	52	Aug. 31, 1912	Aug. 31, 1913
Bartlett, W. T.	25 Union Park, Boston,	121	.50	Master	89	"	"
Belanger, Arthur	432 Kelley [Mass.	110	.50	"	79	"	"
Belanger, Ernest	336 Prospect	12	.50	Journeyman	6	"	"
Blethen, Henry B.	259 Laurel	117	.50	"	86	"	"
Breton, Frank	159 Manchester	24	.50	"	18	"	"
Brock, Ira C.	South Hooksett	23	.50	"	43	"	"
Brown, Wm. T.	278 Walnut	53	.50	"	41	"	"
Cadorette, Antonio J.	4 Newman St., Cambridge,	96	.50	"	73	"	"
Chapman, John W.	890 Clay [Mass.	22	.50	"	12	"	"
Cherrier, L. J.	Franklin, N. H.	111	.50	Master	80	"	"
Clement, Joseph H.	13 Summer St., Laconia,	39	.50	"	27	"	"
Corey, Edward C.	485 Pine [N. H.	31	.50	Journeyman	20	"	"
Cree, Carl D.	372 Lake avenue	118	.50	"	87	"	"
Danielson, David W. C.	52 Stark	92	.50	"	64	"	"
Desmarais, Eugene	119 Orange	108	.50	"	76	"	"
Douglas, Ernest H.	253 Pearl	66	.50	"	47	"	"
Dubois, Oliva	581 Rimmon	95	.50	"	67	"	"
Duhaime, Rudolphe	214 Sagamore	119	.50	"	88	"	"
Dupont, Adelard F.	97 Orange	103	.50	"	72	"	"
Foster, Frederick F.	287 Massabesic	54	.50	Master	39	"	"
Gaudette, Alfred J.	283 Bridge	17	.50	Journeyman	13	"	"
Geoffrion, Ernest J.	165 Kelley	88	.50	"	63	"	"
Gilbert, Albert G.	546 Montgomery	104	.50	"	74	"	"
Greer, Cecil J.	1037 Elm	73	.50	Master	51	"	"
Greer, Leslie C.	42 West Brook	110	.50	"	81	"	"
Grimard, Alfred	17 Prince	52	.50	"	38	"	"
Hartshorn, John E.	66 Boutwell	15	.50	"	16	"	"
Henderson, John B.	161 East Spruce	97	.50	"	78	"	"
Keating, John R.	644 Rimmon	116	.50	"	85	"	"
Lacerte, Albert L.	581 Rimmon	27	.50	Journeyman	19	"	"
Ladd, Arthur S.	81 Pennacook	85	.50	"	59	"	"
Ladd, Dexter	Contoocook, N. H.	38	.50	Master	25	"	"
Landregan, John F.	100 Hall	100	.50	"	71	"	"
Langer, Clemens R.	36 Clinton	29	.50	"	31	"	"

TABLE No. 23.—*Concluded.*

NAME.	RESIDENCE.	No. of Application.	Renewal Fee Received.	Class of Plumber.	Number of License.	Date of Renewal.	Date of Expiration.
Langer, Richard C.	36 Clinton	77	.50	Journeyman	55	"	"
Laughlin, George O.	119 Orange	107	.50	"	77	"	"
Leazotte, James F.	451 Cypress	76	.50	Master	54	"	"
Lemay, Sylvio	488 Pine	115	.50	Journeyman	84	"	"
Lewis, Albert M.	1166 Hayward	26	.50	Master	17	Aug. 31, 1912	Aug. 31, 1913
Marston, Gardner E.	3 Morrison	43	.50	"	30	"	"
McCourt, Patrick J.	259 Manchester	79	.50	Journeyman	58	"	"
McCue, Michael J.	107 Reedsdale Ave., Milton,	90	.50	Master	62	"	"
McLaughlin, John T.	404 Lake avenue.....[Mass.	20	.50	"	11	"	"
Moher, James	739 Paige	75	.50	Journeyman	53	"	"
Murphy, William J.	25 Hall	93	.50	"	65	"	"
Nealey, Chestley E.	79 Mechanic	72	.50	Master	50	"	"
O'Malley Henry	153 Belmont	114	.50	Journeyman	83	"	"
Raiche, Treffle	286 Coolidge avenue	5	.50	Master	7	"	"
Reidy, Timothy P.	221 Wellington avenue	98	.50	"	68	"	"
Sargent, Myrton E.	14 Candia road	113	.50	Journeyman	82	"	"
Seaman, Carl O.	120 Myrtle	4	.50	Master	1	"	"
Severance, William B.	Auburn, N. H.	101	.50	"	70	"	"
Thompson, William	151 Winter	106	.50	Journeyman	75	"	"
Van Brocklin, George	21 Buzzell	44	.50	Master	32	"	"

TABLE No. 24.

PLUMBER'S LICENSES GRANTED DURING THE YEAR 1912.

Name.	Residence.	No. of Application.	Examination Fee.	Class of Plumber.	Number of License.	Date of Issue.	Date of Expiration.
Amlaw, Roy A.	518 Manchester	133	$1.00	Master	97	Dec. 31, 1912	Aug. 31, 1913
Bartlett, Wm. T.	25 Union Park, Boston,	123	1.00	"	89	July 23, 1912	Aug. 31, 1912
Blethen, David M.	21 Ash [Mass.	125	1.00	Journeyman	91	Oct. 15, 1912	Aug. 31, 1913
Blethen, Henry B.	Salem, N. H.	119	1.00	"	86	July 1, 1912	Aug. 31, 1912
Cadorette, Antonio J.	66 Boutwell	127	1.00	Master	93	Nov. 19, 1912	Aug. 31, 1913
Call, Ralph H.	732 Lake avenue	130	1.00	"	98	Dec. 31, 1913	Aug. 31, 1913
Cree, Carl D.	372 Lake avenue	120	1.00	Journeyman	87	July 12, 1912	Aug. 31, 1912
Duhaime, Rudolphe	214 Sagamore	121	1.00	"	88	July 12, 1912	Aug. 31, 1912
Greer, Leslie C.	9 West Brook	110	1.00	Master	81	Mar. 4, 1912	Aug. 31, 1912
Johnson, Sigfred N.	371 Manchester	131	1.00	Journeyman	95	Dec. 10, 1912	Aug. 31, 1913
Keating, John R.	644 Rimmon	118	1.00	Master	85	May 7, 1912	Aug. 31, 1912
Langer, Richard C.	36 Clinton	129	1.00	"	92	Oct. 31, 1912	Aug. 31, 1913
Lemay, Sylvio	488 Pine	117	1.00	Journeyman	84	Mar. 19, 1912	Aug. 31, 1912
Manseau, Oscar	544 Main	128	1.00	"	94	Nov. 19, 1912	Aug. 31, 1913
Martin, Patrick W.	181 High St., Lawrence,	132	1.00	Master	96	Dec. 10, 1912	Aug. 31, 1913
O'Malley Henry	153 Belmont [Mass.	114	1.00	Journeyman	83	Mar. 4, 1912	Aug. 31, 1912
Pickwick, Fred	22 Webster	124	1.00	Master	90	Oct. 15, 1912	Aug. 31, 1913
Sargent, Myrton E.	13 Candia road	113	1.00	Journeyman	82	Mar. 4, 1912	Aug. 31, 1912

TABLE No. 25.

SUMMARY OF TABLES NOS. 22, 23, 24.

Master plumbers' certificates renewed during the year 1912.....		20
Journeyman plumbers' certificates renewed during the year 1912..		17
Master plumbers' licenses renewed during the year 1912.....		25
Journeyman plumbers' licenses renewed during the year 1912.....		30
Master plumbers' licenses granted during the year 1912.....	9	
Journeyman plumbers' licenses granted during the year 1912.....	9	
	18	92
Plumbers' licenses granted after August 31, 1912, (not renewable until August 31, 1913)		9
Total certificates and licenses in force December 31, 1912.....		101

Cost Keeping.

The time book as kept by this office exhibits a complete record by days of each employee and the particular or several jobs each was engaged upon for each day during the year. This method has been in vogue since this department was created and will be continued.

In 1905 a new method (in this office) of keeping orders was begun, a card four by six inches being used, setting forth the nature of the order, date ordered, date done and by whom done, transit and level books and plan reference (for convenience) and each card numbered. This method was originally intended to do away with the many inconveniences due to keeping orders in an order book. Beginning in May, 1906, the cost-keeping feature was added. This last method has proved satisfactory beyond expectation, a brief description of which follows:

Size of all cards, five by eight inches. They are divided at the present time into eight classes of work, board of public works (card or order) embracing all work done by this office for the board of public works, which includes all streets, sewers and park work, and might properly be designated location and construction engineering.

Chief engineer (cards or orders) include all preliminary office or field work, street surveys, levels for profile, cross-section, estimates, plans, details, etc., for the board of public works and individuals.

Miscellaneous (cards or orders) include the setting of all sidewalk grade, staking out street line for abutters on highways and for the staking out of sidewalk construction for any property-owner or contractor.

Cemeteries (cards or orders) include all preliminary location and office work done for cemeteries.

Highway bounds (cards or orders) include the work of setting bounds; it does not include the location of the points. This part of the work is done under chief engineer (cards or orders).

Street signs (cards or orders) include street sign work.

Street numbers (cards or orders) include measuring for street numbers, making numbering plans, assigning and putting on numbers.

Under office work, "stock" includes all drawing materials; under field work "stock" includes stakes, hubs, tacks, etc. Each team is charged in the cost record at twenty cents per hour, based on three hundred and twelve seven and one half hour days per year.

This price will cover cost, repairs, keeping, interest and replacing new every ten years.

Table No. 26 is a list of highway bounds set and reset during 1912, giving the location, material (concrete or granite) new or reset, cost of labor, team, auto truck, stock (cost of bound) and total cost per bound; also average cost of concrete bounds and granite bounds.

Table No. 27 is a detailed statement of levels for street profile, and plan profile work done under chief engineer (cards or orders). This table gives the location and limits of the several jobs, the length of distance covered, the number of lines of levels taken, the equivalent distance (under total distance) of a single line of levels, the cost of labor, team, and total cost of field work, the cost of labor, stock, and total cost of office work, and the total cost of field and office work of each job. This table is given in detail in order to show the actual cost of field and office work of each job.

Table No. 28 is a summary cost record of the cost of work done under miscellaneous (cards or orders), giving the number of orders, the location and description of work, the party or parties ordering the work done, the cost of labor, team, stock and total cost of field work, the cost of labor, stock and total cost of office work, and the total cost of field and office work.

Table No. 29 is a summary of street number orders, giving the number of orders, cost of labor, team, stock and total cost of street number work. This does not include the street number figures given out at the counter. (See matter under street numbers.)

Table No. 30 is a summary cost record of the cost of cemetery work, giving the number of orders for each cemetery where work was done, the cemetery, the cost of labor, stock and total cost of office work done for each cemetery, the cost of labor, team, stock and total cost of field work and total cost of field work and total cost of office and field work for each cemetery. This work is done under cemeteries (cards or orders).

Table No. 31 is a summary cost record of work done under board of public works (cards or orders), giving the number of orders, description of work, cost of labor, team, stock and total cost for each kind of work, as noted under the description of work. Following this table is given the cost of labor, team, stock and total cost of preliminary field and office work and cost of location field work and finished plans (estimated), setting forth the cost of sewer work engineering and giving the percentage of cost of sewer work engineering to sewer work construction.

Table No. 32 is a summary of Tables Nos. 26, 27, 28, 29, 30 and 31.

TABLE No. 26.

COST RECORD—HIGHWAY BOUNDS SET DURING THE YEAR 1912.

LOCATION.	Removed.	Concrete.	Granite.	Reset.	Labor.	Auto.	Team.	Stock.	Total.
Alfred and Hanover, northwest corner	..	..	1	..	$2.12	$1.00	.....	$1.25	$4.37
Alsace and Kelley, northwest corner	..	..	1	..	1.29	.50	.....	1.28	3.07
Amherst and Pine, northeast corner	..	..	1	..	2.58	.....	$0.50	1.25	4.33
Amory and McGregor, southwest corner	..	..	1	..	2.20	1.50	.....	1.25	4.95
Amory and McGregor, west back, northeast corner	..	..	1	..	1.83	1.25	.....	1.25	4.33
Auburn and Belmont, northwest corner	..	..	1	..	2.54	.75	.....	1.28	4.57
Auburn and Lincoln, northwest corner	..	..	1	..	2.54	.75	.....	1.28	4.57
Auger avenue and Willow, northwest corner	..	..	1	..	1.43	.50	.....	1.28	3.21
Beech and Grove, northwest corner	..	..	1	..	2.19	1.00	.....	1.25	4.44
Beech and Merrimack, northeast corner	..	..	..	1	2.19	.75	.....	.03	2.97
Birch east side at Connolly's north line	..	..	1†	..	2.00	.75	.....	.03	2.78
Bremer and Rimmon, southeast corner	..	..	..	1	3.39	1.00	.....	.03	4.42
Bremer and Rimmon, southeast corner	..	..	..	1	3.39	1.00	.....	.03	4.42
Bremer and Youville, northeast corner	..	..	1	..	1.29	.50	.....	1.28	3.07
Brown avenue and Shasta, northeast corner	..	..	1	..	2.60	1.00	.....	1.28	4.88
Cedar and Lincoln, southeast corner	..	..	1	..	2.59	1.00	.....	1.28	4.87
Clifford Court and Massabesic, southeast corner	..	..	1	..	2.87	1.00	.....	1.28	5.15
Concord and Pine, northeast corner	..	..	1	..	2.59	1.00	.....	1.25	4.84
Coolidge avenue and Dexter, southeast corner	..	..	1	..	1.43	.50	.....	1.28	3.21
Coolidge avenue west side, between Dexter and Hevey	..	..	1	..	1.69	.50	.....	1.28	3.47
Coolidge avenue south side, P. R. C. east of Hevey	..	..	1	..	3.58	1.25	.....	1.28	6.11
Coolidge avenue and Mason, northwest corner	..	1	..	..	1.29	.50	.....	.53	2.32
Coolidge avenue west side, P. R. C. north of Mason	..	..	1	..	1.43	.50	.....	1.28	3.21
Coolidge avenue and Rimmon, southeast corner	..	..	1	..	1.43	.50	.....	1.28	3.21
Coolidge avenue and Rimmon, southwest corner	..	..	1	..	1.43	.50	.....	1.28	3.21
Coolidge avenue west back and Hevey, northwest corner	..	..	1	..	1.69	.50	.....	1.28	3.47

Coolidge avenue west back and Rimmon, southeast corner	..	..	1	..	1.43	.50	.....	1.28	3.21
Dexter and Youville, southeast corner	..	..	1	..	1.59	.50	.....	1.28	3.37
Hall and Massabesic, southeast corner	..	..	1	..	2.07	.....	.40	1.25	3.72
Hall and Orange, southwest corner	..	..	..	1	1.91	1.00	.....	.....	2.91
Hall road and Hanover, southeast corner	..	..	1	..	3.38	1.00	.....	1.30	5.68
Hanover and Hubbard, northeast corner	..	..	..	1	2.58	.....	.50	.....	3.08
Highland and Laurel	..	..	..	1	2.12	.....	.40	.....	2.52
Howe and Maple, southeast corner	..	..	1	..	1.75	.....	.35	1.28	3.38
Joliette and Kelley, southeast corner	1*	..	..	..	.63	.....	.10	.....	.73
Kelley and Laval, southeast corner	..	..	1	..	1.29	.50	.....	1.25	3.04
Lake avenue and Massabesic, southwest corner	..	..	1	..	1.59	.....	.30	1.25	3.14
Lincoln and Silver, southeast corner	..	..	..	1	1.29	.....	.20	.....	1.49
Linden and Myrtle, southeast corner	..	..	..	1	3.08	.....	.40	.06	3.54
Main, South, center 30 feet north of railroad	..	..	1	..	3.76	1.75	1.25	.....	6.76
Maple and Shasta, northeast corner	..	..	1	..	1.75	.....	.35	1.28	3.38
Mason and Rimmon, southeast corner	..	..	..	1	1.43	.50	.....	.03	1.96
Mason and Youville, northeast corner	..	..	1	..	2.39	.75	.....	1.28	4.42
Parker and Parker avenue, southeast corner	..	..	1	..	3.00	.....	.60	1.28	4.88
Pine and Spruce, southeast corner	..	..	..	1	2.65	.....	.50	.....	3.15
River road east side at J. E. Dodge's south line	..	..	1	..	2.65	.50	.....	1.25	4.40
Union and Valley, northeast corner	..	..	1	..	2.54	.75	.....	1.28	4.57
Willow west side, first angle south of Auger avenue	..	..	1	..	1.43	.50	.....	1.28	3.21
	1	1	36	10	$101.56	$27.25	$5.85	$45.23	$179.89

*Removed on account of construction work.
†Old bound.

Cost of concrete bounds, $0.50 each.
Cost of granite bounds, $1.25 each.
Cost of team, $0.20 per hour.
Cost of automobile, $0.50 per hour.
Average cost of 36 granite bounds, including setting, $4.04.
Average cost of 47 bounds, including setting, $3.827.

Concrete bounds set	1
Granite bounds set	36
Bounds reset	10
Total bounds set	47
Bounds on hand January 1, 1913	4

TABLE No. 27.

COST RECORD.—FIELD WORK (Levels for Profile). OFFICE WORK (Plans and Profiles).

Location.	Limits.	Distance.	No. of lines.	Total Distance.	Field Work.			Office Work.			Total Cost.
					Labor.	Team.	Total.	Labor.	Stock.	Total.	
Agawam	River road to Davis	255	3	765	.....	.....	.....	.....	.....	.....	.....
Amory	Main to McGregor	500	7	3,500	$3.23	$0.50	$3.73	$1.76	$0.10	$1.86	$5.59
Amory	McGregor to McGregor west back	192	2	284	5.04	2.00	7.04	3.52	.20	3.72	10.76
Appleton	Chestnut to Union	870	5	4,350	3.00	.50	3.50	2.64	.10	2.74	6.24
Auburn south back	Pine east back to Beech	940	3	2,820	2.59	.40	2.99	2.08	.05	2.13	5.12
Auburn south back	Beech to Maple	650	3	1,950	1.46	.50	1.96	.88	.10	.98	2.94
Baker	Elm to Calef road	590	5	2,950	3.10	.60	3.70	2.20	.05	2.25	5.95
Beech	Mitchell to south of Norfolk	1,900	3	5,700	6.16	.90	6.96	5.98	.20	6.18	13.14
Beech	Norfolk to south of Gold	1,900	3	5,700	5.30	1.00	6.30	2.64	.10	2.74	9.04
Beech	Hanover to Lowell	1,020	5	3,390	4.62	.60	5.22	2.58	.10	2.68	7.90
Belmont	Hayward to Harvard	650	5	3,250	2.55	.40	2.95	1.76	.05	1.81	4.76
Boutwell east back	Bremer, 700 feet northerly	700	3	2,100	2.22	1.50	3.72	.66	.05	.71	4.43
Brown avenue	A to Milford	645	5	3,225	2.40	.40	2.80	2.20	.10	2.30	5.10
Calef road	Baker to Hillcrest avenue	1,125	5	5,625	3.54	.70	4.24	2.20	.12	2.32	6.56
Calef road	Hillcrest Ave. to Elmwood	1,100	5	5,500	3.23	1.25	4.48	3.52	.12	3.64	8.12
Cartier east back	Putnam to Wayne	600	3	1,800	3.07	.50	3.57	1.10	.05	1.15	4.72
Cartier east back	Adams to south of Schuyler	285	3	855	2.12	.40	2.52	.66	.03	.69	3.21
Chestnut	North to Webster	685	5	3,790	3.71	.70	4.41	3.08	.05	3.13	7.54
Chestnut	Clarke to Appleton	1,295	5	6,475	4.24	.80	5.04	3.30	.12	3.42	8.46
Clifford court	Massabesic, westerly	255	3	765	1.40	.20	1.60	.44	.03	.47	2.07
Cody	Candia road to P. R. R.	1,185	3	3,555	3.10	.60	3.70	1.76	.10	1.86	5.56
Columbus avenue	Wayne to Rimmon	665	3	1,995	2.87	1.00	3.87	1.32	.10	1.42	5.29
Coolidge avenue	Dexter, southerly	1,440	3	4,320	3.88	1.50	5.38	4.40	.12	4.52	9.90
Cressy lane	Monroe, southerly	125	3	375	1.20	.20	1.40	.66	.03	.69	2.09
Dexter	Coolidge avenue to Youville	790	3	2,370	3.71	.70	4.41	1.32	.10	1.42	5.83
Dubuque	Amory to Kelley	750	5	3,750	3.65	.50	4.15	2.20	.10	2.30	6.45
Elm	Auburn to Bell	560	5	2,800	.....	.....	.....	.....	.12	.12	.12
Elm	Baker to Elmhurst avenue	1,845	5	9,225	.....	.....	.....	.....	.24	.24	.24
Elm east back	Hayward to Valley	220	3	660	.....	.....	.....	.....	.05	.05	.05
Elm	Brook to North	1,840	8	14,720	14.23	2.40	16.63	7.52	.22	7.74	24.37
Elm	Stark to Mechanic	210	4	840	2.40	.40	2.80	1.54	.05	1.59	4.39
Elm	Valley to railroad bridge	840	2	2,040	5.83	1.10	6.93	1.32	.10	1.42	8.35
Ferry south back	Turner to Second	305	3	915	2.65	.50	3.15	1.76	.05	1.81	4.96
Ferry lane	Turner to Second	310	3	930	.....	.....	.....	.66	.03	.69	.69
Granite	Turner to Main	925	8	6,475	11.66	2.20	13.86	6.60	.10	6.70	20.56
Hall	Massabesic to Spruce	210	5	1,050	1.20	.20	1.40	1.22	.03	1.25	2.65

Hanover	Beech to Maple	750	5	3,660	2.65	.50	3.15	1.54	.10	1.64	4.79
Harvard south back.	Wilson to Hall	560	3	1,680	3.18	.60	3.78	1.32	.05	1.37	5.15
Harvard south back.	Wilson, westerly	250	3	750	1.26	.20	1.46	.55	.03	.58	2.04
Hayward	Elm to Willow	320	3	1,110	3.47	.40	3.87	1.68	.05	1.73	5.60
Hayward	Hall to Belmont	910	3	2,730	1.06	.20	1.26	.44	.....	.44	1.70
Hevey east back	Wayne to Columbus	260	3	780	1.43	.50	1.93	.44	.03	.47	2.40
High	Chestnut to Pine west back.	235	3	705	1.59	.50	2.09	.55	.03	.58	2.67
Howe	Wilson to Hall	560	3 & 4	1,860	4.54	.80	5.34	.99	.05	1.04	6.38
Howe	Wilson to Hall	560	..	560	1.84	.40	2.24	2.64	.10	2.74	4.98
Lamprey	Mast road to Rockland Ave.	1,120	3	3,360	3.65	1.25	4.90	2.64	.10	2.74	7.64
Laval east back	Bremer, northerly	400	3	1,200	1.30	.50	1.80	.....	.....	.....	1.80
Lincoln	Auburn to Valley	1,400	3	4,200	4.24	.80	5.04	1.76	.12	1.88	6.92
Lowell	Elm to Chestnut	670	7	4,690	2.38	.50	2.88	1.76	.10	1.86	4.74
Lowell	Pine to Union	550	5	2,880	3.10	.60	3.70	1.54	.05	1.59	5.29
Lowell north back	Birch to Chestnut	338	4	1,352	3.23	.50	3.73	1.76	.10	1.86	5.59
Massabesic	Lake avenue to Spruce	765	8	5,355	.....	.....	.....	.....	.10	.10	.10
Massabesic	East of Porter on concrete culvert	.....	..	.....	1.29	.20	1.49	.....	.....	.....	1.49
Main	Milford to A	870	6	5,220	5.84	.80	6.64	3.96	.10	4.06	10.70
Main	Granite to N. W. R. R.	840	8	6,720	6.36	1.20	7.56	6.50	.12	6.72	14.28
Mammoth road	East side Candia road, northerly	500	1	500	1.59	.30	1.89	.44	.....	.44	2.33
Maple	Bridge to Lowell	703	7	4,921	2.86	.60	3.46	3.08	.10	3.18	6.64
Maple	Auburn to Valley	1,400	3	4,200	4.00	.70	4.70	2.64	.12	2.76	7.46
Mason	Hayward to Valley	592	3	1,776	1.59	.30	1.89	1.10	.05	1.15	3.04
Mason	Montgomery to Alsace	840	3	2,520	4.24	.80	5.04	1.32	.05	1.37	6.41
McGregor	West Bridge to Wayne	780	8	5,440	3.15	.50	3.65	3.08	.05	3.13	6.78
Merrill	Mason to Jewett	710	5	2,850	1.06	.20	1.26	.66	.05	.71	1.97
Merrimack	Maple to Lincoln	650	6	4,090	3.00	.50	3.50	2.64	.06	2.70	6.20
Merrimack	Beech to Maple	700	5	3,550	3.08	.40	3.48	1.98	.06	2.04	5.52
Monadnock lane	Beech to Maple	700	3	2,100	2.65	.50	3.15	2.20	.10	2.30	5.45
Monroe south back	Elm to Cressey lane	330	3	990	1.40	.20	1.60	.78	.05	.83	2.43
Morgan	Kelley to north of Bremer	1,180	3	3,540	4.20	.70	4.90	1.54	.10	1.64	6.54
Morgan	Kelley to Amory	750	3	2,250	2.65	.50	3.15	1.10	.10	1.20	4.35
Monmouth south back	Main to McGregor west back	335	4	1,340	2.64	2.00	4.64	1.32	.03	1.35	5.99
Nashua	Lowell to Bridge	850	7	5,950	5.17	.80	5.97	3.96	.10	4.06	10.03
North	Elm to Chestnut	715	7	5,005	3.15	.50	3.65	2.42	.10	2.42	6.17
Notre Dame avenue.	Amory to Kelley	750	6	3,530	3.07	.50	3.57	2.20	.10	2.30	5.87
Orange	Belmont, westerly	50	1	.....	.....	.....	.....	.34	.12	.46	.46
Pine east back	Valley to Green	960	3	2,880	3.71	.70	4.41	1.32	.10	1.42	5.83
Pine east back	Green to top of bank	210	3	630	.65	.10	.75	.66	.03	.69	1.44
Prescott	Maple, westerly	250	3	750	2.12	.40	2.52	.55	.03	.58	3.10
Ray	Webster to Clarke	1,280	5	6,400	4.24	.80	5.04	3.52	.10	3.62	8.66
Ray	Carpenter to Trenton	580	5	3,075	2.65	.50	3.15	2.20	.10	2.30	5.45
Reed	Bremer, northerly	800	3	2,550	5.09	1.10	6.19	.....	.....	....	6.19
Reed	Mason to Dexter	825	3	2,475	1.59	.30	1.89	.....	.....	.....	1.89
Rimmon	South of Wayne to Putnam	.....	..	.....	.65	.25	.90	.22	.....	.22	1.12

TABLE No. 27.—*Concluded.*

Location.	Limits.	Distance.	No. of lines.	Total Distance.	Field Work.			Office Work.			
					Labor.	Team.	Total.	Labor.	Stock.	Total.	Total Cost.
Seneca lane	Pine, easterly	510	3	1,530	2.58	.50	3.08	1.10	.05	1.15	4.23
Silver south back	Wilson to Hall	560	3	1,680	2.65	.50	3.15	1.32	.05	1.37	4.52
Silver	Beech to Maple	700	3	2,100	3.15	.50	3.65	.66	.05	.71	4.36
Somerville	Beech to Maple	700	5	3,500	4.38	.60	4.98	1.54	.05	1.59	6.57
Sullivan	Angle west of Whipple to railroad	305	3	915	1.59	.50	2.09	1.10	.10	1.20	3.29
Summer	Lincoln to Wilson	745	3	2,235	2.92	.40	3.32	2.89	.05	2.94	6.26
Summer south back.	Pine east back to east of Union	645	3	1,995	1.94	.30	2.24	.88	.05	.93	3.17
Taylor	Dix to Cilley road	.....	3	1,000	2.59	.40	2.99	.....	.....	.....	2.99
Titus avenue	Beech to west of Union	1,000	3	3,000	5.39	.70	6.09	1.98	.10	2.08	8.17
Union	Hanover to Concord	700	7	5,200	3.61	.70	4.31	4.40	.10	4.50	8.81
Walnut	Blodget to Salmon	940	5	4,700	3.08	.40	3.48	2.99	.10	3.09	6.57
Wayland avenue	Mammoth road	.....	..	.....	1.08	.30	1.38	.23	.....	.25	1.61
Webster	Chestnut to Beech	1,555	5	7,775	7.85	1.50	9.35	6.60	.20	6.80	16.15
Willow	Baker to Beech	1,100	5	5,500	3.71	.70	4.41	2.20	.10	2.30	6.71
Wilmot	Beech to west of Union	1,090	3	3,270	6.16	.80	6.96	2.76	.10	2.86	9.82
Youville	Bremer to Gardner	2,290	3	6,870	7.42	1.40	8.82	3.52	.22	3.74	12.56
		68,865		294,208	$302.07	$59.85	$361.92	$181.09	$7.56	$188.65	$550.57

TABLE No. 28.

COST RECORD—MISCELLANEOUS ORDERS.

No. of Order.	Location and Description.	By whom Ordered.	Field Work.				Office Work.			Total Cost.
			Labor.	Team.	Stock.	Total.	Labor.	Stock.	Total.	
122	Grades (sidewalk)	Abutters	$279.45	$56.35	$11.57	$347.37	.....	.....	.....	$347.37
34	Grades (sidewalk)	Robie Consolidated Con. Co.	65.46	11.15	3.91	80.52	.....	.....	.....	80.52
21	Grades (sidewalk)	Office	64.76	13.10	4.44	82.50	.....	.....	.....	82.50
8	Grades (miscellaneous)	Office	15.32	6.20	.18	21.70	.....	.....	.....	21.70
53	Grades (sewers)	Office	137.41	32.25	.03	169.69	.....	.....	.....	169.69
15	Grades (gutters)	Office	30.71	5.30	1.17	37.18	.....	.....	.....	37.18
7	Grades (paving)	Office	23.71	6.85	2.12	32.68	.....	.....	.....	32.68
301	Grades (curbs)	Office	1,018.40	247.38	89.67	1,355.45	.....	.....	.....	1,355.45
1	Location (corner)	Abutter	2.12	.40	.....	2.52	.....	.....	.....	2.52
5	Location (corner)	Office	14.98	3.30	.09	18.37	.....	.....	.....	18.37
3	Location (cesspool)	Office	17.52	6.00	1.32	24.84	.....	.....	.....	24.84
21	Plans (miscellaneous)	Office	.....	.....	.....	.....	$12.60	$1.05	$13.65	13.65
17	Plans (numbering)	Office	88.40	.....	.....	88.40	318.83	1.70	320.53	408.93
7	Measurements (miscellaneous)	Office	14.17	2.25	.53	16.95	.....	.....	.....	16.95
7	Surveys (miscellaneous)	Office	53.07	14.95	.45	68.47	.....	.....	.....	68.47
7	Levels (miscellaneous)	Office	12.24	2.00	.....	14.24	3.52	.73	4.25	18.49
6	Petitions (miscellaneous)	Office	.....	.....	.....	.....	.79	.....	.79	.79
9	Street lines (miscellaneous)	Office	66.01	17.30	2.58	85.89	.....	.....	.....	85.89
644			$1,903.73	$424.78	$118.06	$2,446.77	$335.74	$3.48	$339.22	$2,785.99

TABLE No. 29.

COST RECORD—STREET NUMBERS.

No. of orders.	Labor.	Team.	Stock.	Total.
939	$28.40	$6.20	$86.68	$121.28
939	$28.40	$6.20	$86.68	$121.28

TABLE No. 30.

COST RECORD—CEMETERIES.

No. of Orders.	Location.	Office Work.			Field Work.				Total cost.
		Labor.	Stock.	Total.	Labor.	Team.	Stock.	Total.	
12	Pine Grove cemetery	$2.40	$0.10	$2.50	$48.00	$7.20	$0.60	$55.80	$58.30

TABLE No. 31.

COST RECORD—BOARD OF PUBLIC WORKS.

No. of orders.	Description of Work.	Labor.	Team.	Stock.	Total cost.
3	Location, cesspools	$17.52	$6.00	$1.32	$24.84
3	Lines and grades (miscellaneous)	15.32	6.20	.18	21.70
6	" " (streets)	49.55	13.55	2.37	65.47
6	" " (paving)	21.19	4.65	1.97	27.81
8	" " (sidewalk)	36.59	6.50	2.99	46.08
15	" " (gutters)	30.71	5 30	1.17	37.18
53	" " (sewers)	137.42	32.25	.02	169.69
267	" " (curbs)	932.99	229.61	83.62	1,246.22
361		$1,241.29	$304.06	$93.64	$1,638.99

The cost of sewer preliminary field and office work, location field and office work, and finished plans is as follows:

Description.	Labor.	Team.	Stock.	Total cost.
Location field work	$137.42	$32.25	$0.02	$169.69
Finished plans (estimated)*	100.00	.....	25.00	125.00
	$237.42	$32.25	$25.02	$294.69

* This work is done the first of the year following construction.

Expended by the Board of Public Works in constructing sewers, $27,938.57. (See table No. 21.)

Cost of engineering, $294.69, or .0105 percent.

TABLE No. 32.

SUMMARY OF TABLES Nos. 27, 28, 29, 30 AND 31.

No. of Tables.	No. of orders.	Field Work.				Office Work.			Total cost.
		Labor.	Team.	Stock.	Total.	Labor.	Stock.	Total.	
27	100	$302.07	$59.85	.....	$361.92	$181.09	$7.56	$188.65	$550.57
28	646	1,903.73	424.78	$118.06	2,446.77	335.74	3.48	339.22	2,785.99
29	939	28.40	6.20	88.68	121.28	.....	.....	.....	121.28
30	12	48.00	7.20	.60	55.80	2.40	.10	2.50	58.30
31	361	1,241.29	304.06	93.64	1,638.99	.....	.....	.....	1,638.99
	2,058	$3,523.49	$802.09	$299.09	$4,626.65	$519.23	$11.14	$530.37	$5,155.13

To His Honor the Mayor, the board of aldermen, the gentlemen of the common council, and the various committees with whom in the performance of my duties I have come in contact, I wish to express my appreciation of the assistance and support you have rendered to me during the year.

My acknowledgments are due the gentlemen of the board of public works for their courtesy, consideration and coöperation in matters in which we were mutually engaged.

SAMUEL J. LORD,
Engineer.

General Statistics.

CITY OF MANCHESTER, N. H., January 1, 1913.

Manchester is situated on the east and west banks of the Merrimack river, in latitude 43° 00′ 04.3″ north, longitude 71° 26′ 21.1″ west (finial of Weston observatory), at an elevation above sea level of from about 100 feet to about 530 feet.

Zero of city base is 100.934 feet above sea level.

City hall step is 108.520 feet above zero of city base, or 209.454 feet above sea level.

VARIOUS ELEVATIONS ABOVE SEA LEVEL.

Coping stone of high service reservoir, 500.924 feet.

Rock Rimmon, highest point, 390.56 feet.

Lake Massabesic, 250 feet.

Granite and Main streets about 163 feet, South Main and Milford about 178 feet, Milford and Rochelle avenue about 196 feet, Amory and Main about 213 feet, Amory and Notre Dame avenue about 236 feet, Elm and Carpenter about 288 feet, Highland and Lowell about 426 feet, Hanover and Beacon about 354 feet, Lake avenue and Massabesic about 251 feet, Elm and Brown avenue 211 feet, Cypress and Vinton about 340 feet, Bridge and Hall about 326 feet.

Greatest extent of city, north and south, 11.5 miles; east and west, 5.3 miles.

Merrimack river frontage, 10 miles.

Area of city including those portions covered by water approximately 21,700 acres, or 33.906 square miles.

AREA OF WARDS.

Ward 1, 128 acres; Ward 2, 6.131 acres; Ward 3, 329 acres; Ward 4, 255 acres; Ward 5, 134 acres; Ward 6, 3.997 acres; Ward 7, 164 acres; Ward 8, 1,117 acres; Ward 9, 631 acres; Ward 10, 8.814 acres.

Most thickly settled ward, Ward 5; most sparsely settled ward, Ward 10.

AREA OF PARKS AND COMMONS.

Derryfield park, 68 acres; Rock Rimmon park, 45 acres; Stark park, 30 acres; Oak Hill Reservoir park, 25.65 acres; West Side park, 9.76 acres; Prout park, 3.70 acres; Simpson park, 0.56 acres; East Side park, 0.44 acres; Merrimack common, 5.89 acres; Concord common, 4.48 acres; Park common, 3.49 acres; Hanover common, 3.00 acres; Parker common, 2.61 acres; Tremont common, 2.25 acres.

Total area of parks and commons, 206.91 acres; valuation, $700.00.

WATER AREA.

Massabesic lake (entire), 2,400 acres (water shed 40 square miles); area in city, 500 acres; Long pond, 23,250 acres; Mosquito pond, 21,855 acres; Nutt's pond, 19,095 acres; Stevens' pond, 16.276 acres; Merrimack river, 550 acres; Piscataquog river, 50 acres.

Total water area in city, 1,580.476 acres.

Area taxed, approximately 15,000 acres.

Valuation, real estate and personal property, $69,109,145.00; tax rate, 1913, $1.52.

STREETS AND ROADS.

Unpaved streets, not including back streets, lanes or alleys, 119.63 miles.

Paved streets, including such back streets and lanes as are paved, 6.46 miles.

Outlying or country roads, 72.66 miles.

Total miles of streets and roads, 198.75 miles.

PAVED STREETS.

Granite block, cement joints,	1.96 miles,	43,510 square yards
Granite block, sand joints,	2.29 miles,	25,093 square yards
Granite block, sand joints, old,	0.46 miles,	11,062 square yards
Tar concrete,	3.41 miles,	55,663 square yards
Tar macadam,	0.10 miles,	1,580 square yards
Hassam,	0.07 miles,	1,636 square yards
Wood block,	0.24 miles,	2,873 square yards
Total,	*8.53 miles,	141,417 square yards

Common width of streets, 50 feet; widest street, 100 feet; narrowest street, 20 feet; longest street, city proper, 4.3 miles; suburban, 5.3 miles.

Sidewalks on streets, approximately 200 miles.

Ninety miles of streets have shade trees.

*Including gutters on paved streets.

BRIDGES.

Location.	Length in feet.	Width of roadway.	Number of walks.	Width of walks.	Material.	Arches or spans.
Amoskeag	765.5	20	1	5.5	Wood	3
Bridge street at upper canal	57	22.5	2	7	Iron	1
Bridge street, McGregor and approaches	1,085	23	2	8	"	3
Brown avenue at Goffe's Falls	30	34	2	8	Steel	1
Brown avenue at Cheney's	6	16			Wood	1
Brown avenue at Little Cohas	16	20				1
Cohas avenue at Great Cohas	36	30.5			Stone	2
Derry road at Great Cohas	38	20			Wood	1
Derry road near Cohas avenue	33	20			Steel	1
Derry road near town line	33	20			"	1
Dunbarton road at Black brook	25	17.5			Wood	1
Elm street at railroad	89	29.5	1	4.5	"	1
Front street at Black brook	16.5	33			"	1
Granite street at lower canal	55	40	2	10	Steel	1
Granite street at river	468	40	2	8	"	4
Granite street at North Weare railroad	56	37.5	2	6	Iron	1
Island Pond road at outlet of lake	46	16			Steel	1
Main street at Piscataquog river	90	34	2	8	Stone	2
Mammoth road at Great Cohas	38	18			Wood	1
Mammoth road near town line	14	20			"	1
Merrill road at Manchester & Lawrence railroad	61.5	12			"	1
Mill road at Harvey's mill	59	24			Steel	1
Parker street at North Weare railroad	53	24	2	6	Iron	1
Second street at Piscataquog river	62	32.5	2	8.75	Steel	1
Second street at Piscataquog river	127	32.5	2	8.75	"	1
Webster road at waterworks dam	100	17.5			Wood	5
Weston road east of D. Connor's	6	16			"	1
Willow street at Great Cohas	74	24			Steel	3

TREES IN CITY.

Number and kind of trees on streets, exclusive of those on the Amoskeag and Stark corporations, 14,701, divided as follows: Elm, 4,345; maple, 7,694; oak, 760; poplar, 971; others, 931.

In public and parochial school yards: Elm, 72; maple, 278; oak, 9; others, 65; total, 424.

In parks, commons and city farm: Elm, 578; maple 1,284; oak, 70; poplar, 67; others, 12,201; total, 14,200.

Total number of trees of all kinds, 29,325.

CEMETERIES.

Four cemeteries belonging to the city have a combined area of 240 acres; 11 private cemeteries, about 75 acres.

SEWERS.

Akron, 68.250 miles; Portland, old, 0.911 miles; Portland, new, 7.392 miles; earthen, 0.603 miles; cement 5.427 miles; brick, 8.816 miles; cast iron, $.135 miles; steel riveted, 0.09 miles; total, 91.624 miles.

Largest sewer, 50 inches by 75 inches; smallest, 6 inches.

RAILROADS.

Electric railways, double track counted twice, city lines, 41.368 miles; suburban lines, 22.69 miles.

Steam railroads, double track, about 8.5 miles; single track, about 11.5 miles exclusive of sidings and tracks in railroad yards.

STREET LIGHTS.

Electric arc, 609; tungsten, 258; gas, 32; others, 4; total, 903.

Number of electric arches over street, 10.

CITY BUILDINGS.

Schoolhouses, brick, 26; wood, 2; total 28; valuation, $900.00. Engine houses, 9; valuation, $170.00. Other public buildings, 10; valuation, $620.00.

Churches, brick, 15; wood, 28; stone, 1; total, 44.

Postoffices, stone, 1; sub-stations, 16.

Police stations, 2; railroad stations, 6.

FIRE DEPARTMENT.

Steam fire engines, 7; chemical, 1; auto chemical, 1; combination wagons, 2; hose wagons, 9; ladder trucks, 5; auto ladder truck, 1; hose carriages, spare, 2.

Number of permanent men in department, 60; call men, 121; horses, 55.

Valuation of equipment, including fire-alarm telegraph, $140,779.

POPULATION.

Population, estimated, January 1, 1913, 73,000.

REPORT

OF THE

SUPERINTENDENT OF PUBLIC BUILDINGS.

REPORT OF THE SUPERINTENDENT OF PUBLIC BUILDINGS.

MANCHESTER, N. H., January 1, 1913.

To the Board of Mayor and Aldermen of the City of Manchester:

GENTLEMEN:—I herewith submit my annual report of the department of buildings for the year ending December 31, 1912:

Outside of the general repairs always necessary, there has been the following special work done and permanent improvements made:

The Varney school has been varnished throughout and steel ceilings have been placed in part of the basement. The North Main-street school has been varnished throughout and weather strips placed on some of the west windows where rooms were hard to heat. At the Ash-street school the wooden floors in the basement that were badly worn and very unsanitary have been torn out and replaced with concrete. At the Lincoln-street school the same work has been done in the basement, also new sash have been put in throughout the building. At the Bakersville school a boiler has been installed beside the old one, which will now be sufficient to keep the building warm at all times. At the Stark district school a complete system of water supply, water-closets, sinks and sewerage has been installed. At the Pearl-street school a new Acme boiler has been installed with complete system of direct and indirect heat, which is proving very satisfactory. At the Mosquito Pond school water-closets, urinals, sinks, etc., have been installed with complete system of sewerage.

General repairs on all the buildings belonging to the city have been made as far as the appropriation would admit. Much, however, remains to be done, and will be taken care of as far as possible the coming year.

The following is a detailed report of the permits issued, with the estimated cost and total number of inspections of the same:

TABLE SHOWING THE NUMBER OF PERMITS ISSUED EACH MONTH FOR NEW BUILDINGS WITH THE ESTIMATED COST.

	Jan.	Feb.	Mar.	Apr.	May	June	July
Dwellings	2	4	12	37	47	29	30
Business	3	2	8	15	17	17	16
Public	..	..	..	..	..	..	1
Total	5	6	20	52	64	46	47

	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Dwellings	35	26	40	21	15	298
Business	26	29	14	14	9	170
Public	1	1	2	1	..	6
Total	62	56	56	36	24	474

ESTIMATED COST.

	Dwellings.	Business.	Public.
January	$5,900	$4,275	.....
February	28,750	1,370	.....
March	38,200	23,200	.....
April	97,502	252,710	.....
May	118,225	7,770	.....
June	89,165	4,732	.....
July	123,650	13,173	$25,000
August	130,980	504,727	61,248
September	72,771	31,925	12,000
October	155,270	8,750	320,788
November	52,960	1,535	17,647
December	45,600	1,880	.....
Total	$958,975	$856,047	$436,683

TABLE SHOWING THE NUMBER OF PERMITS ISSUED FOR ALTERATIONS, ENLARGEMENTS AND REPAIRS OF OLD BUILDINGS.

	Jan.	Feb.	Mar.	Apr.	May	June	July
Dwellings	7	14	16	42	41	64	46
Business	9	13	16	17	26	31	33
Public	..	..	..	..	..	..	..
					1		
Total	16	27	32	59	68	95	79

	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Dwellings	58	47	43	22	13	413
Business	43	31	20	31	13	283
Public	2	..	..	..	..	3
Total	103	78	63	53	26	699

ESTIMATED COST.

	Dwellings.	Business.	Public.
January	$3,400	$5,610	.....
February	16,315	10,945	.....
March	5,925	6,476	.....
April	29,400	31,542	.....
May	17,413	35,250	$23,000
June	24,705	10,775	.....

July	$14,645	$17,780	.....
August	21,115	20,992	$2,650
September	15,855	14,835	.....
October	14,856	39,125	.....
November	6,081	4,588	.....
December	8,715	1,225	.....
Total	$178,425	$199,143	$25,650

Number of permits issued during the year 1912	1,182
Number of permits refused during the year 1912	10
Number of inspections made during the year 1912	9,501
Number of permits issued during the year for electric signs, etc	9

Respectfully yours,

H. S. FOSTER,

Superintendent of Public Buildings.

REPORT OF THE CITY SOLICITOR.

REPORT OF THE CITY SOLICITOR.

To the Honorable Mayor and City Councils:

I have the honor to submit to you the report of the city solicitor from April 1, 1912, to January 7, 1913.

Of the cases pending in court April 1, 1912, the following were disposed of:

Lawrence M. Connor *et al vs.* Manchester.
Joseph Landry *vs.* Manchester.
Fred P. Danforth *vs.* Manchester.
Francena Laird *vs.* Manchester.

The other cases still stand upon the various dockets.

The following cases were begun and entered in the Superior Court for the county of Hillsborough:

8322—Marion Fairgraves *vs.* Stark Mfg. Co. and Manchester.

Claim for damages caused by an alleged defective condition of a certain highway.

8851—Margaret Shea, admx. of James Shea *vs.* Manchester.

Claim for damages for the death of James Shea alleged to have been struck by a horse owned by the city.

8914—Jeremiah Choate *vs.* Manchester.

Claim for damages sustained on account of alleged negligence of certain employees of the fire-alarm telegraph.

8923—Marie A. St. Jean *vs.* Manchester.

Claim for damages arising from the alleged slippery condition of the sidewalk on Wayne street.

9032—Francena Laird *vs.* Manchester.

Claim for damages alleged to have been caused by changing grade of highway so as to flood the plaintiff's land.

Eq. 3449—Arthur F. Wheat *et als*,, exrs. of Emily E. Killey
vs.
Manchester and Trustees of Cemeteries.

This is a petition for a judicial interpretation of the status of a certain trust fund created by the late Emily E. Killey.

Eq. 3473—Maurice J. Connor *vs.* Manchester.

This action was brought to set aside the contract made by the city with the Gamewell Fire Telegraph Co., upon the ground that fraud

had been used by the latter. The case has been heard, and there being no findings of fraud in procuring the contract, the contract has been held valid and the case ordered dismissed.

The Boston & Maine Railroad has installed the alarm signals along certain grade crossings as petitioned for by the city to the public service commission.

Several hearings have been held relative to installing car tracks in different localities within the city limits, and to laying out, widening or discontinuing certain highways.

Many claims have been attended to and adjusted in connection with the committee on claims or the mayor.

Exhaustive search of the title of the city to land on Vine street, and searches of title to various property sold for taxes, have been made.

Tentative bills have been drawn for proposed legislation to be presented before the 1913 legislature. A petition to enable the city to acquire land for the site of the Carpenter Memorial library was also drawn.

The solicitor has endeavored, to the best of his ability, to fulfill the duties of his office, but the varied nature of this work makes it difficult to give a detailed report of all the demands made upon him by the city councils, committees and officials, and if made, would not serve any useful purpose.

He therefore submits the above summary as covering all the most important matters which have had his attention, and in conclusion tenders his thanks to all the members of the city government for their uniformly courteous treatment and assistance.

Respectfully submitted,

OSCAR F. MOREAU,

City Solicitor.

REPORTS

OF THE

TRUSTEES OF CEMETERIES AND CEMETERY FUNDS.

REPORTS OF THE TRUSTEES OF CEMETERIES AND CEMETERY FUNDS.

Report of Subtrustees of Pine Grove Cemetery.

To the Trustees of Cemeteries and Board of Mayor and Aldermen:

GENTLEMEN :—I am instructed by the subtrustees of the Pine Grove cemetery to make the annual report covering the work of the year 1912.

That work was carried along the same lines followed for many years, under the continued superintendence of John H. Erskine, whose experience makes him each year a more valuable public servant. The work was well done; the grounds were kept in excellent condition. More and more labor is called for each succeeding year, and each year additional trees, shrubs and flowers. Newly macadamized avenues are constantly enlarging and finely kept lawns add to the beauty of the cemetery. In 1912 the work was largely confined to upkeep, yet considerable new development was begun.

Four acres of the Mitchell land, which were in an exceedingly rough state, were cleared of stumps and rocks, enriched with dressing and seeded down to grass. Five of the houses containing seven tenements, all of which are occupied by tenants, were repaired in a thorough manner inside and painted on the outside. In one of the two tenement houses the water pipes were renewed and lowered to prevent freezing.

That part of Chapel lawn on which are situated the Gould and Clough mausoleums was put into condition for sale and thirty-two new lots staked out therein. The unfinished portions of Spruce lawn were covered with clay and loam and will be seeded to grass in the spring, ready to be divided into lots. A large rockery was completed and is ready for the planting of vines and flowers and will add a very attractive feature to the northerly section of the grounds. The old public ground in the same section was completely worked over and seeded down, making a marked improvement. West of Riverside lawn a considerable section of border was loamed and is ready to be seeded. In the southerly portion of the grounds a new single grave lawn was begun and fifty lots laid out ready for sale. In regrading lots, either under perpetual care or cared for at the expense of the owners, 968 square feet of paths and borders were loamed and seeded.

The three-inch water main in Highland avenue was extended to the south two hundred feet; one hundred feet of two-inch water pipe were laid in Riverside avenue; and seventy-five feet of one-inch water pipe

were also laid. Eleven hydrants, which were not in working order, were repaired, and two new ones were installed.

About five hundred feet of twelve-inch Akron pipe were laid as an outlet for the sewer placed around Spruce lawn, and about one hundred feet of eight-inch pipe were connected with a cesspool near Landscape lawn. One cesspool, one manhole and two lantern holes were constructed in connection with the twelve-inch sewer.

A large amount of time and labor was devoted to the removal of old trees, trimming and caring for the trees and shrubs and destroying moth nests. Twelve hundred little evergreen trees were purchased and planted in the nursery and over two hundred similar trees were left from the preceding year's planting. Ninety spruce were set in the hedge on the west side of the cemetery and some two hundred shrubs were set out in the grounds. The estimated value of the plants used in the cemetery was $2,000, and most of them are products of our own greenhouses. This furnishes another proof of the wisdom of conducting these houses.

On the lots under perpetual care, in addition to the usual work of watering the grass and keeping it clipped, 694 pieces of granite, including monuments, markers, posts and curbings, were cleaned. Two lots which were completely worn out, were spaded, dressed and seeded. Four tons of fertilizer, forty-eight cords of stable dressing and a thousand feet of six-inch hose were purchased for these perpetual care lots. The cost of removing weeds was included in the regular labor items.

Again the subtrustees have the opportunity, which they are most pleased to grasp, of thanking the trustees of the cemetery fund for a donation of $1,000 for permanent improvements. The sum, added to the balance left from the donation of 1911, made a total of $1,541.82. The donation was received so late in the season that the only charge made against it was for 413 43-100 tons of Salem broken stone, purchased from the board of public works and used to macadamize the avenues around the new single grave lawn and Riverside avenue, west of Riverside lawn, in all, 970 square yards. A balance to be used in the work of the coming year, amounting to $963.02, was left.

A ten-ton Austin gasoline motor roller was purchased at a cost of $3,000 for use on the avenues and proved very satisfactory. A small shed in which to store the roller was erected on the west side of Brown avenue. During the year 347 bodies were buried, making the total number of interments to December 31, 1912, 9,875. There were removed from one grave to another in the cemetery 29 bodies, and 11 from other cemeteries to Pine Grove, and two from Pine Grove elsewhere. Foundations were laid for 62 monuments and 83 markers. One slate vault, 26 cement vaults and 3 Clinton vaults were built. Twelve lots were regraded, and 491 loads of clay, 508 loads of loam, 75 loads of gravel and 50 loads of muck were used during the year in grading.

The number of lots sold January 1, 1912, was 3,261; during the year 63 were sold, making in all 3,324 lots sold on December 31. There remain ready for sale 231 lots, 395 single graves on Swedish lawn and 47 in the new single grave lawn.

Lots to the number of 440 were cared for at the owner's expense and 924 under perpetual care and 473 under semi-perpetual care, so that considerably over one half of all the lots are of no actual cost to the city. And, as has been stated many times before, this proposition will grow larger each year, as no lots have been sold for more than five years without provision for enough care to keep them properly graded, watered and clipped, and none will be sold without such provision. The average number of men employed during the year was seventeen.

The superintendent's receipts were $8,671.15, composed of cash received: for water and care of lots from owners $1,481, for water and care of lots under perpetual care $3,113, for water and care for lots under semi-perpetual care $544.56, for interments $746.50, for removals $104, for labor $1,436.59, for water at houses $9, for use of chapel eleven times $33, for rent of houses $724.75, for flowers sold $431.95 and for sundries $28.80. This sum of $8,671.15, together with $3,030.59 received for lots sold during the year, was turned into the city treasury, a total of $11,701.74, leaving the net cost to the city of $7,798.26 out of an appropriation of $19,500. Deducting the purchase price of the motor roller, an actual cost of $4,798.26 for care and upkeep remains.

During the year there was paid into the cemetery fund the sum of $5,590.90 for perpetual care of lots sold, $1,008.90 for semi-perpetual care, and $160 for care of single graves, and for care of ordinary lots placed under perpetual care $3,262.85, making the sum total of the cemetery fund for care of lots and graves on December 31, 1912, $153,767.37. The income from the fund for 1912 was $6,232.47, the expenses for the year $4,973.62, and the unexpended balance of income on hand December 31, $7,550.16.

An option to purchase the George Hackett farm of about 72 acres for $8,000 was obtained from the owner by the subtrustees. This farm adjoins the cemetery land on the south on the west side of Brown avenue. It is a very desirable purchase and was recommended to the common council of 1912 by the subtrustees and by the mayor and aldermen, but that body neglected to provide the funds. It is the only land available and the opportunity to acquire it at such a low price will be gone with the expiration of the option on June 1, 1913. The subtrustees most strongly recommend the exercise of the privilege to purchase before the chance passes. Upon the farm there is a house, the rent of which will cover a large part of the annual interest on the purchase price, and the loam and sand available would make the farm of inestimable value to the cemetery. No actual expenditure will be

required of the city, as it can be purchased by the issuance of cemetery bonds or notes to be taken and held by the trustees of the cemetery fund. It will be a wicked blow to the cemetery if the present common council fail to provide for the purchase.

The Merrill yard was looked after as usual. The appropriation was $100 and the receipts $71.88, making the cost $28.12.

All of which is respectfully submitted.

EDWIN F. JONES,
Clerk for the Subtrustees.

Report of Subtrustees of Valley Cemetery.

To the Trustees of Cemeteries and Board of Mayor and Aldermen, Manchester, N. H.:

GENTLEMEN :—It is with some feeling of satisfaction that I, in behalf of the subtrustees of the Valley cemetery, make the following report, for the year ending 1912.

In our report for 1910, attention was called to the deplorable condition of affairs on Willow street. The trustees have had some assurance recently that the same was to be remedied, and as suggested in that report, when this is done the trustees would take some steps looking to the establishment of a new fence and possibly a retaining wall, as well as making some suitable culvert over the brook. We have asked for an appropriation for this specific purpose for the present year, and are in hopes that the same may be granted, so that the Willow street side of the cemetery may be enclosed with a proper and suitable fence, the same as the other sides. For the coming year, the trustees are planning to continue the cement curb on the driveways an additional five hundred feet. They also find that it will be necessary to construct a new bridge across the brook, as the old one is rapidly approaching the condition where it is unsafe. It also seems advisable to dress over with a cement covering the long flight of stone steps at the south end of the cemetery leading down to the brook.

The trustees re-elected for superintendent Eugene C. Smith, and the careful attention which he has given to the cemetery shows that their selection of a superintendent was certainly a wise one. He has, in addition to his regular duties of superintending the work of the cemetery, seen to the removal of the brown-tail moth nests and other pests which have infested the trees, getting work of this nature entirely out of the way before the close of the year. And while the cemetery is now very nearly free from this trouble, the trees have not been badly mutilated. He has also had to arrange for the removal of five bodies, the interment of forty, while forty-eight bodies were placed in the tomb.

The trustees regret that the appropriation for the past year, five thousand dollars, was not as large as previously, for the same has been all expended within about three dollars. This does not mean, however, that the actual cost to the city has been that amount, for there has

been received for the care of the lots, tomb fees, and interments, one thousand nine hundred and eighty-two dollars (being an increase of twenty-five dollars and fifty cents over last year) and leaving the net cost to the city, three thousand and eighteen dollars, about the same as previous years. We are also pleased to report, as was the case last year, that there has been an increase in the number of lots placed under perpetual care, the increase for the past year being thirteen, or making a total of two hundred and sixty-nine lots now under perpetual care. A similar increase is shown in the lots placed under annual care, though the increase is not quite as large in proportion, being five in the year just ending, or making in all two hundred and ten lots now under annual care. Every additional lot placed under either annual or perpetual care adds just so much to the permanent cemetery fund of the city, thus increasing the city assets by just so much.

During the year there have been employed three men all of the time, and five additional men a part of the time, and the total amount expended for labor during the whole year has been three thousand eight hundred and fifty dollars and seventy cents.

There has also been added to the general landscape effect of the cemetery some twenty-five hundred square feet which were graded and seeded down to lawn, requiring fifty-three loads of loam, and two thousand feet of turf, while some two hundred loads of sand have been removed from the cemetery.

Respectfully submitted,

FRANK C. LIVINGSTON,
Clerk.

Report of Amoskeag Cemetery.

Appropriation for the year 1912		$500.00

EXPENDITURES DURING THE YEAR.

George C. Harwood, for labor	$236.00	
John Crabtree, for labor	8.75	
Peter Sefton, for labor	17.50	
Denis Mahoney, for labor	12.00	
Suppiles	65.98	
Water	12.00	
Horse hire	8.00	
	$360.23	
Balance unexpended	139.77	
		$500.00

There have been seven burials during the year 1912, and the receipts for the year amounted to $14.

GEORGE C. HARWOOD,
Superintendent.

CHARLES W. RICHARDS,
Chairman of Trustees.

TREASURER'S REPORT.

To the Trustees of Cemeteries:

I herewith present to you the annual report of money received for the year ending December 30, 1912.

Pine Grove Cemetery.

	Interest.	Price of Lot.	Permanent Fund.	Total.
Mrs. Albert Kidder.....	.....	$7.50	.....	$7.50
Stella F. Dickey and Herman A. Peaslee.....	$5.38	$35.94	$44.94	$86.26
Stephen S. Reade.....	1.25	39.00	48.75	89.00
John Cameron.....	1.97	74.23	92.80	169.00
Francena Morgan.....	.....	33.60	42.00	75.60
Martha Solger.....	.....	28.87	36.09	64.96
Mrs. Ida Brendle.....	.....	37.37	46.72	84.09
Phineas W. Dickey.....	.....	41.35	51.68	93.03
Susan H. McCoo.....	.....	25.30	31.63	56.93
Andrew Lekie.....	5.81	41.76	52.20	99.77
Carl R. Lagerquist.....	1.93	39.00	48.75	89.68
Carl K. Beadle.....	.....	35.11	43.89	79.00
Clara Wilkinson.....	.....	22.00	27.50	49.50
George G. Dennis.....	.....	22.00	27.50	49.50
Mrs. Augustus Erfurt.....	.....	23.10	28.87	51.97
Augustus Royal.....	2.30	47.92	59.90	110.12
Annie M. Paine.....	.....	21.12	26.40	47.52
Clara E. Krabisch.....	.....	22.34	27.93	50.27
Annie G. Waterman.....	5.15	35.96	44.96	86.07
Anna M. Graf.....	.....	22.00	27.50	49.50
Pauline Kiontke.....	.....	24.20	30.25	54.45
Pauline Kammel.....	.....	24.20	30.25	54.45
James Mineilly.....	.....	38.00	47.94	85.94
John S. and John C. Richardson	.....	48.00	60.09	108.09
Alice H. Bell.....	.....	24.29	30.36	54.65
Susan J. Ryerson.....	1.64	46.55	128.01	176.20
John B. Bowker.....	.....	38.00	104.50	142.50
Lizzie L. Towle.....	.14	39.31	108.10	147.55
Anna M. Maiwald.....	.....	30.00	82.50	112.50
Elizabeth A. Lull.....	.....	30.00	82.50	112.50

	Interest.	Price of Lot.	Permanent Fund.	Total.
Charles A. Currier.....	.....	$27.99	$76.96	$104.95
Caroline F. Poore.....	.....	93.89	281.67	375.56
Almon O. Oviatt.....	.....	30.20	83.05	113.25
Herman F. Straw.....	.....	156.62	469.88	626.50
Richard G. Wheeler.....	.....	54.12	148.83	202.95
Charles S. Johnson.....	.....	30.28	83.27	113.55
James A. Folsom.....	.....	88.40	265.23	353.63
Edward M. Holmes.....	.....	38.40	105.61	144.01
Joseph L. Proud.....	.....	38.00	104.50	142.50
Luther A. Clarkson and Nathan A. Chadwick.....	.....	49.40	135.85	185.25
Wilfred O. Smith.....	.....	39.28	108.01	147.29
Nina E. Jameson.....	.....	32.18	88.52	120.70
Curtis W. Davis.....	$10.00	36.43	100.19	146.62
Margaret Annis.....	2.33	49.40	135.85	187.58
Eleanor J. Annis.....	4.03	20.00	75.00	99.03
Mrs. D. W. Bachelder.....	3.00	80.00	240.00	323.00
Sidonie Lendersdorfer.....	.....	30.00	82.50	112.50
Herbert A. Woodbury.....	.....	93.68	281.06	374.74
Henry Willett.....	.....	32.68	89.82	122.50
Trustees I. O. O. F., Uncanoonuc Lodge.....	.....	95.75	263.31	359.06
Albert F. Sawyer.....	.....	45.60	125.40	171.00
Elvira N. Lovering.....	.....	38.00	104.50	142.50
Frank N. Young.....	13.33	282.50	787.50	1,083.33
George M. Lowell.....	5.25	90.26	270.76	366.27
Dora J. Williamson.....	.....	13.12	75.10	88.22
Paul E. Jeanson.....	.....	60.00	165.00	225.00
Mary A. Perkins and Margaret A. Smith.....	.....	20.87	57.39	78.26
Ozias T. Coleman.....	.....	24.94	68.58	93.52
Annette J. Rockwell.....	.....	38.07	104.70	142.77
Frank O. Payne.....	.....	39.00	107.25	146.25
Maurice S. Willey.....	.....	10.00	8.00	18.00
Estate of John Campbell...	.....	10.00	8.00	18.00
Tillie McFarland.....	.....	20.00	16.00	36.00
Christine Johnson.....	.....	10.00	8.00	18.00
James Edmond.....	.....	10.00	8.00	18.00
Wm. G. Carr.....	.....	20.00	16.00	36.00
Estate of Meletois Vellakonls.....	.....	10.00	8.00	18.00
Mike Kapriel.....	.....	10.00	8.00	18.00
Christos Garonfalios.....	.....	10.00	8.00	18.00
Mabel C. Read.....	.....	10.00	8.00	18.00
Estate of A. Kokesh.....	.....	10.00	8.00	18.00

	Interest.	Price of Lot.	Permanent Fund.	Total.
Gustaf F. Rydin	.....	$10.00	$8.00	$18.00
Mrs. Peter Harris	.....	10.00	8.00	18.00
Dora J. Williamson	.....	10.00	8.00	18.00
D. L. Robinson	.....	10.00	8.00	18.00
Dora J. Williamson	.....	10.00	8.00	18.00
Charles W. Moody	.....	10.00	8.00	18.00
Charles W. Moody	.....	10.00	8.00	18.00
Interest	$63.51			
Price of lots		$2,967.08		
Permanent fund			$6,759.80	
Total receipts, sale of lots				$9,790.39
J. H. Erskine, superintendent, care of lots				8,671.15
				$18,461.54

Cr.

Perpetual care lots	$5,590.90	
Partial perpetual care lots	1,008.90	
Single grave section	160.00	
		$6,759.80
Treasurer's receipts for amount paid to city		3,030.59
Superintendent's receipts for amount paid to city		8,671.15
		$18,461.54

Valley Cemetery.

E. C. Smith, superintendent, care of lots	$1,982.00	
Fred L. Allen, treasurer, sale of path	15.00	
		$1,997.00

Cr.

By superintendent's receipts	$1,982.00	
By treasurer's receipts	15.00	
		$1,997.00

Merrill Yard Cemetery.

John H. Erskine, superintend'nt, care of lots	$60.00	
F. L. Allen, treasurer, sale of lots	11.88	
		$71.88

CR.

J. H. Erskine, superintendent, amount paid to the city	$60.00	
Fred L. Allen, treasurer, amount paid to the city	11.88	
		$71.88

Amoskeag Cemetery.

George P. Harwood, superintendent care of lots	$14.00

CR.

George P. Harwood, superintendent, amount paid to city	$14.00

Respectfully submitted,

FRED L. ALLEN,
Treasurer Trustees of Cemeteries.

I hereby certify that I have examined the accounts of Fred L. Allen, treasurer of the trustees of cemeteries, and find the same correctly cast and vouched for.

JAMES E. DODGE,
City Auditor.

To the Trustees of the Cemetery Fund:

GENTLEMEN:—I herewith submit to you the thirtieth annual report of the funds received and expenses paid to January 1, 1913.

Pine Grove Cemetery.

Amount of permanent fund January 1, 1912	$143,744.72

RECEIPTS DURING THE YEAR.

Arthur H. Caswell	$100.00
S. F. Claflin	160.00
Charles T. Wilkins and Emma A. Wilkins	100.00
F. G. Riley, treasurer (A. J. Young lot)	182.00
Jeremiah Hodge	120.00
Elizabeth E. Holmes and E. A. G. Holmes	108.00
Mattie E. Strong	108.00
Catherine Faith, executrix	127.45
Charles S. Stevens, executor	502.40
Ethel S. Patterson	100.00
Alice B. Clark	100.00
Mrs. C. D. Welch	200.00
Mrs. F. W. Morgan	100.00

Cora M. Stearns	$108.00	
Helena Stone	100.00	
Josephine D. Webster	144.00	
Benjamin F. Pike, executor	500.00	
Martha Kidd	100.00	
F. C. Livingston, administrator	103.00	
Benjamin F. Pike, executor (placing flags on lot of W. W. Ingham)	200.00	
To receipts transferred from Pine Grove cemetery:		
Perpetual care lots	5,590.90	
Partial care lots	1,008.90	
Single grave section	160.00	
Receipts for the year		$10,022.65
Total of fund		$153,767.37

CR.

By bonds on hand	$113,050.00
By cash on hand	40,717.37
	$153,767.37

INCOME ACCOUNT.

Income on hand January 1, 1912		$6,291.31
Interest savings banks	$1,010.41	
Interest savings banks, partial care lots	508.54	
Interest savings banks, single grave lots	36.02	
Interest coupons, Manchester bonds	4,677.50	
		6,232.47
		$12,523.78

EXPENSES PAID DURING THE YEAR.

Union Coal Co.	$64.50
Wood, Stubbs & Co	28.50
C. A. Boynton	22.50
W. E. Dunbar & Sons	120.00
Horace L. Haynes	228.40
J. B. Varick Co	95.00
J. D. French	157.36
L. P. Tremblay	21.00
J. H. Erskine, superintendent, perpetual care of lots	3,113.00
J. H. Erskine, superintendent, partial care of lots	508.54

J. H. Erskine, superintendent, single grave section	$36.02	
Board of public works (special), broken stone for macadamizing	578.80	
		$4,973.62
Cash income on hand		7,550.16
		$12,523.78

Valley Cemetery.

Amount of permanent fund January 1, 1912		$41.009.37

RECEIPTS DURING THE YEAR.

Isabel Greeley, executrix	$125.00	
Grace P. Richardson	108.00	
Nettie Dickey Towle	120.00	
Charles A. Gillis	200.00	
Benjamin F. Pike, executor	200.00	
Fred G. Stark	120.00	
Mrs. D. O. Furnald	122.40	
George B. Dodge	166.40	
H. W. N. Bennett, executor	126.00	
Charles W. Emerson	100.00	
Mrs. Anna A. Wyman	120.00	
Receipts for the year		1,507.80
Total of fund		$42,517.17

CR.

By bonds on hand	$31,500.00	
By cash on hand	11,017.17	
		$42,517.17

INCOME ACCOUNT.

Income on hand January 1, 1912		$6,520.88
Interest savings banks	$666.66	
Interest coupons, Manchester bonds	1,350.00	
		2,016.66
		$8,537.54

EXPENSES PAID DURING THE YEAR.

W. E. Dunbar & Sons	$45.00	
John B. Varick Co.	40.50	
Pine Grove cemetery	44.00	
H. L. Haynes	79.35	
E. C. Smith, superintendent, care perpetual lots	1,056.00	
Total		$1,264.85
Cash income on hand		7,272.69
		$8,537.54

HANNAH A. CURRIER FUND.

For care of gateway at Valley cemetery.

Amount of fund January 1, 1912		$500.00

CR.

Cash on hand		$500.00

INCOME ACCOUNT.

Income on hand January 1, 1912	$18.33	
Interest savings bank	20.72	
		$39.05
Paid J. J. Abbott for painting gateway	$23.86	
Cash income on hand	15.19	
		$39.05

GALE FUND INCOME ACCOUNT.

Income on hand January 1, 1912		$214.32
Interest savings bank	$8.53	
Income from fund	12.12	
		20.65
		$234.97
Paid E. C. Smith, superintendent, care of Gale tomb	$8.00	
Paid H. L. Haynes for cleaning and cementing Gale tomb	36.85	
Cash income on hand	190.12	
		$234.97

SPECIAL FUND.

For the care of Oliver Gould lot in Pine Grove cemetery.

Amount of fund January 1, 1912		$500.00

CR.

By cash on hand		$500.00

INCOME ACCOUNT.

Income on hand January 1, 1912	$11.94	
Interest savings bank	20.64	
		$32.58
Paid J. H. Erskine, superintendent, for care of lot	$12.00	
Cash income on hand	20.58	
		$32.58

Merrill Yard Cemetery.

Amount of permanent fund		$1,287.89
Ida M. Wingate, executrix	$100.00	
Henry K. Webster, administrator	100.00	
		200.00
		$1,487.89

CR.

By bonds on hand	$450.00	
By cash on hand	1,037.89	
		$1,487.89

INCOME ACCOUNT.

Income on hand January 1, 1912		$430.95
Interest savings bank	$53.04	
Interest coupons Manchester bonds	22.50	
		75.54
		$506.49
Paid J. H. Erskine, superintendent, care of lots	$41.00	
Cash income on hand	465.49	
		$506.49

Respectfully submitted,

FRED L. ALLEN,

Treasurer of Trustees of Cemetery Fund.

This is to certify that I have examined the books of account of Fred L. Allen, treasurer of the cemetery funds, embracing the receipts and expenditures for the year 1912, and I find the same correct and properly vouched. I have also examined the securities in which said fund is invested and find as follows:

PINE GROVE CEMETERY.

20 city of Manchester 5 percent cemetery bonds, Nos. 1, 2, 3, 5, 6, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 22, 23, 24, 26, 28, due 1942, denomination $1,000 each	$20,000.00	
2 city of Manchester 5 percent cemetery bonds, Nos. 1 and 2 due 1942, denomination $500 each	1,000.00	
1 city of Manchester 5 percent cemetery bond, No. 3, due 1942	50.00	
14 city of Manchester 5 percent cemetery bonds, Nos. 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, due 1913, denomination $1,000 each	14,000.00	
1 city of Manchester 5 percent cemetery bond, No. 2, due 1913	500.00	
5 city of Manchester 5 percent cemetery bonds, Nos. 1, 2, 3, 9, 10, due 1913, denomination $100 each	500.00	
16 city of Manchester 3½ percent city bonds, Nos. 21, 22, 23, 71, 72, 73, 74, 75, 91, 92, 94, 95, 96, 97, 98, 99, due April 1, 1919, denomination $1,000 each	16,000.00	
1 city of Manchester 4 percent school bond, due July 1, 1913, No. 178	1,000.00	
2 city of Manchester 4 percent improvement bonds, Nos. 1 and 2, due April 1, 1916	2,000.00	
14 city of Manchester 4 percent water bonds, Nos. 21, 22, 23, 24, 25, 26, 27, 28, 50, 51, 56, 57, 58, 59, due January 1, 1917	14,000.00	
4 city of Manchester 3½ percent municipal bonds Nos. 41, 42, 43, 44, due July 1, 1922	4,000.00	
19 city of Manchester 4 percent water bonds, Nos. 24 to 40 inclusive, 4, 7, due July 1, 1915	19,000.00	
21 city of Manchester cemetery bonds, 3½ percent, Nos. 1 to 21 inclusive, due October 1, 1930	21,000.00	
		$113,050.00

Cash in deposit in Manchester Savings bank, Book No. 50420	$15,558.26	
Cash on deposit in Mechanics Savings bank, Book No. 3413	18,069.24	
Cash on deposit in Mechanics Savings bank, Book No. 4407	13,608.03	
Cash on deposit in Mechanics Savings bank, Book No. 4522	1,032.00	
		$48,267.53
Total amount of permanent fund and income December 31, 1912		$161,317.53

VALLEY CEMETERY.

4 city of Manchester 5 percent cemetery bonds, Nos. 1, 6, 11, 18, due 1913, denomination $1,000 each	$4,000.00	
1 city of Manchester 5 percent cemetery bond, No. 1, due 1913, denomination $500	500.00	
3 city of Manchester 5 percent cemetery bonds, Nos. 6, 7, 8, due 1913, denomination $100	300.00	
8 city of Manchester 5 percent cemetery bonds, Nos. 4, 7, 12, 19, 20, 21, 25, 27, due 1942, denomination $1,000 each	8,000.00	
2 city of Manchester 5 percent cemetery bonds, Nos. 2 and 4, due 1942, denomination $50 each	100.00	
3 city of Manchester 4 percent improvement bonds, Nos. 3, 4, 5, due April 1, 1916	3,000.00	
3 city of Manchester 3½ percent city bonds, Nos. 81, 92, 100, due April 1, 1919, denomination $1,000 each	3,000.00	
6 city of Manchester 3½ percent municipal bonds, Nos. 35, 36, 37, 38, 39, 40, due 1922	6,000.00	
6 city of Manchester 3½ percent cemetery bonds, Nos. 3, 4, 5, 6, 7, 8, due 1942, denomination $100 each	600.00	
6 city of Manchester 4 percent water bonds, Nos. 8, 9, 10, 11, 12, 13, due July 1, 1915	6,000.00	
		$31,500.00
Cash on deposit in Mechanics Savings bank, Book No. 5569	$16,043.62	
Cash on deposit in Amoskeag Savings bank, Book No. 68808	2,246.24	
		18,289.86
Total amount of permanent fund and income		$49,789.86

MERRILL YARD CEMETERY.

2 city of Manchester 5 percent cemetery bonds, Nos. 4 and 5, due 1913, denomination $100 each	$200.00	
2 city of Manchester 5 percent cemetery bonds, Nos. 1 and 2, due 1942, denomination $100 each	200.00	
1 city of Manchester 5 percent cemetery bond, No. 1, due 1942, denomination $50	50.00	
		$450.00
Cash on deposit in Amoskeag Savings bank, Book No. 69517		1,503.38
Total amount of permanent fund and income December 31, 1912		$1,953.38

GALE FUND INCOME ACCOUNT.

Cash on hand in Amoskeag Savings bank, Book No. 34108	$190.12	
Special fund for the care of the Oliver Gould lot in Pine Grove cemetery:		
Cash on hand in Manchester Savings bank, Book No. 94650	520.58	
Hannah A. Currier fund, Valley Cemetery:		
Cash on hand in Merrimack Savings bank, Book No. 42740	515.19	
Total amount of fund and income December 30, 1912		$214,286.66

JAMES E. DODGE,
City Auditor.

REPORT

OF THE

TRUSTEES OF THE SINKING FUND.

REPORT OF THE TRUSTEES OF THE SINKING FUND.

To the Mayor and Aldermen of the City of Manchester:

GENTLEMEN:—As required by chapter 37, section 4, of the City Ordinances of Manchester, the trustees of the sinking fund of the city of Manchester herewith report the condition of the several funds January 1, 1913, with receipts and disbursements for the year ending December 31, 1912.

CHARLES C. HAYES,
CHARLES H. MANNING,
FRED L. ALLEN,
Trustees of the Sinking Fund.

IMPROVEMENT LOAN.

Total amount of fund January 1, 1912, for the payment of improvement bonds		$379,812.14
Interest on Manchester bonds	$10,080.00	
Interest on Nashua bonds	400.00	
Interest on Boston bonds	2,435.00	
Interest on city of Manchester note of $16,693 for six months @ 3½ per cent	292.13	
Accrued interest on $15,000 of bonds transferred to refunding city loan	150.00	
Interest on bank deposits	570.33	
		13,927.46
		$393,739.60

CR.

Eleanor Ferguson:		
Accrued interest paid for $21,000 Manchester bonds	$210.00	
Shontell & Varick:		
Accrued interest paid for $1,000 Manchester bonds	3.33	
Clara A. Stark:		
Accrued interest paid for $2,000 Manchester bonds	36.46	
Mrs. L. A. Knox:		
Accrued interest paid for $2,000 Manchester bonds	27.77	
		$277.56

Bonds on hand December 31, 1912.....	$348,000.00	
Cash on hand December 31, 1912.....	45,462.04	
		$393,462.04
Total on hand.....		$393,739.60

WATER LOAN.

Total amount of fund January 1, 1912, for the payment of water bonds.....		$204,127.02
Appropriation 1912.....	$5,000.00	
Hydrant service 1912.....	23,075.00	
Interest on Manchester bonds.....	4,847.50	
Interest on bank deposit.....	126.26	
		33,048.76
		$237,175.78

CR.

Amount paid city of Manchester for the payment of water bonds maturing January 1, 1912.....		$100,000.00
Bonds on hand December 31, 1912.....	$103,000.00	
Cash on hand December 31, 1912.....	34,175.78	
		137,175.78
		$237,175.78

SCHOOL LOAN.

Total amount of fund January 1, 1912, for the payment of school bonds maturing July 1, 1916.....		$37,833.40
Interest on Manchester bonds.....	$1,090.00	
Interest bank deposit.....	402.80	
		1,492.80
		$39,326.20

CR.

The First National bank, Bristol, N. H.:		
Accrued interest paid for $1,000 Manchester bonds...		$8.67
Bonds on hand December 31, 1912.....	$19,000.00	
Cash on hand December 31, 1912.....	20,317.53	
		39,317.53
		$39,326.20

CITY FUNDING LOAN.

Total amount of fund January 1, 1912, for the payment of bonds maturing April 1, 1919.....		$70,665.69

Interest on Manchester bonds	$2,230.00	
Interest on Boston bonds	240.00	
Interest on bank deposit	92.50	
		$2,562.50
		$73,228.19

CR.

Old Colony Trust Co.:		
Accrued interest paid for $2,000 city of Manchester bonds		$26.67
Bonds on hand December 31, 1912	$62,000.00	
Note, city of Manchester, payable June 30, 1913	9,000.00	
Cash on hand December 31, 1912	2,201.52	
		73,201.52
		$73,228.19

MUNICIPAL LOAN.

Total amount of fund January 1, 1912, for the payment of bonds maturing July 1, 1922		$40,578.73
Appropriation 1912	$4,000.00	
Interest on Manchester bonds	1,122.50	
Interest on bank deposit	47.33	
		5,169.83
		$45,748.56

CR.

N. W. Harris & Co.:		
Accrued interest paid for $1,000 city of Manchester bonds		$10.11
Bonds on hand December 31, 1912	$38,000.00	
Note, city of Manchester, payable June 30, 1913	3,850.00	
Cash on hand December 31, 1912	3,888.45	
		45,738.45
Total on hand		$45,748.56

CITY REFUNDING LOAN.

Total amount of fund January 1, 1912, for the payment of bonds maturing April 1, 1925		$16,447.00
Interest on Manchester bonds	$300.00	
Interest on bank deposit	329.88	
Appropriation 1912	2,500.00	
		3,129.88
		$19,576.88

CR.

Accrued interest paid for $15,000 Manchester bonds transferred from improvement loan		$150.00
Bonds on hand	$15,000.00	
Cash on hand	4,426.88	
		19,426.88
Total on hand		$19,576.88

REFUNDING CITY LOAN.

Total amount of fund January 1, 1912, for the payment of bonds maturing April 1, 1927		$10,446.78
Appropriation 1912	$2,500.00	
Interest on Manchester bonds	120.00	
Interest on bank deposit	347.57	
		2,967.57
		$13,414.35

CR.

R. L. Day & Co.:		
Accrued interest paid for $4,000 Manchester bonds	$66.67	
Accrued interest paid for $2,000 Manchester bonds	13.33	
		$80.00
Bonds on hand	$6,000.00	
Cash on hand	7,334.35	
		13,334.35
		$13,414.35

IMPROVEMENT LOAN, SERIES E.

Total amount of fund January 1, 1912, for the payment of bonds maturing April 1, 1930		$10,100.00
Appropriation 1912	$5,000.00	
Interest bank deposits	304.00	
		5,304.00
		$15,404.00

CR.

Cash on hand	$15,404.00

CEMETERY LOAN.

Total amount of fund January 1, 1912, for the payment of bonds maturing October 1, 1930		$1,050.00
Appropriation 1912	$1,050.00	
Interest bank deposit	31.50	
		1,081.50
		$2,131.50

CR.

By cash on hand	$2,131.50

Respectfully submitted,

FRED L. ALLEN,

Treasurer of Trustees of Sinking Fund.

This is to certify that I have examined the accounts of Fred L. Allen, treasurer of the trustees of the sinking fund, embracing the receipts and expenditures for the year ending December 31, 1912, and find the same correct and properly vouched. I have also examined the securities in which the fund is invested and find the same as follows:

IMPROVEMENT LOAN.

No. of Bonds Held.	Descriptive No. of Bonds.	Value of Bond.	Kind.	Rate of Interest.	Due.	Amount.	
58	Nos. 8 to 12 inc., 40, 44, 62, 69, 67, 68, 70, 75, 76, 77, 78, 80, 81, 82, 83, 88 to 94 inc., 60, 61, 96 to 100 inc., 45, 79, 7, 15 to 35 inc.	$1,000	Improvement Series A	4%	Jan. 1, 1913	$58,000.00	
9	Nos. 5, 6, 7, 8, 9, 22, 29, 32, 33	1,000	Water Series C	4%	Oct. 1, 1914	9,000.00	
4	Nos. 193, 198, 199, 200	1,000	School	4%	July 1, 1915	4,000.00	
10	Nos. 41 to 47 inc., 57, 58, 56	1,000	Water	4%	July 1, 1915	10,000.00	
38	Nos. 1, 8, 21, 30, 31, 32, 33, 34, 36, 44, 29, 35, 45, 46, 48, 49, 50, 51, 52, 62, 75, 38 to 43 inc., 58 to 61 inc., 63 to 69 inc.	1,000	Improvement Series C	4%	Apr. 1, 1915	38,000.00	
41	Nos. 54 to 93 inc., 9	1,000	Improvement Series D	4%	Apr. 1, 1916	41,000.00	
35	Nos. 17 to 20 inc., 60 to 65 inc., 71 to 74 inc., 77, 78, 3, 4, 35, 36, 89 to 100 inc., 38, 39, 40	1,000	Water	4%	Jan. 1, 1917	35,000.00	
44	Nos. 6 to 20 inc., 29 to 57 inc.	1,000	City Funding	3½%	Apr. 1, 1919	44,000.00	
36	Nos. 6 to 33 inc., 64 to 71 inc.	1,000	Municipal	3½%	July 1, 1922	36,000.00	
5	Registered	5,000	City of Boston	3½%	June 1, 1944	25,000.00	
1	Registered	20,000	City of Boston	4%	Apr. 1, 1913	20,000.00	
1	Registered	1,000	City of Boston	4%	July 1, 1913	1,000.00	
1	Registered	1,000	City of Boston	4%	Apr. 1, 1913	1,000.00	
1	Registered	16,000	City of Boston	4%	Oct. 1, 1914	16,000.00	
10	Nos. 48, 49, 50, 76, 77, 78, 79, 80, 101, 102.	1,000	City of Nashua	4%	June 1, 1913	10,000.00	
	Bonds on hand					$348,000.00	
	Cash on hand					45,462.04	
							$393,462.04

WATER LOAN.

No. of Bonds Held.	Descriptive No. of Bonds.	Value of Bond.	Kind.	Rate of Interest.	Due.	Amount.	
1	No. 95	$1,000	Improvement Series A	4%	Jan. 1, 1913	$1,000.00	
18	Nos. 10 to 21 inc., 45 to 50 inc.	1,000	Water Series C	4%	Oct. 1, 1914	18,000.00	
17	Nos. 9 to 20 inc., 53 to 57 inc.	1,000	Improvement Series C	4%	Apr. 1, 1915	17,000.00	
2	Nos. 191, 192	1,000	School	4%	July 1, 1915	2,000.00	
11	Nos. 30 to 40 inc.	1,000	School	4%	July 1, 1916	11,000.00	
6	Nos. 79 to 84	1,000	Water	4%	Jan. 1, 1917	6,000.00	
1	No. 70	1,000	City Funding	3½%	Apr. 1, 1919	1,000.00	
22	Nos. 29 to 50 inc.	1,000	Refunding	3½%	Apr. 1, 1925	22,000.00	
25	Nos. 3 to 27 inc.	1,000	Water	4½%	Nov. 1, 1913	25,000.00	
	Bonds on hand					$103,000.00	
	Cash on hand					34,175.78	
							$137,175.78

SCHOOL LOAN.

No. of Bonds Held.	Descriptive No. of Bonds.	Value of Bond.	Kind.	Rate of Interest.	Due.	Amount.	
1	No. 180	$1,000	School	4%	July 1, 1913	$1,000.00	
1	No. 41	1,000	Improvement Series A	4%	Jan. 1, 1913	1,000.00	
6	Nos. 181, 183, 184, 185, 189, 190	1,000	School Series C	4%	July 1, 1914	6,000.00	
1	No. 3	1,000	Water	4%	Oct. 1, 1914	1,000.00	
7	Nos. 48, 49, 50, 51, 52, 59, 60	1,000	Water	4%	July 1, 1915	7,000.00	
1	No. 18	1,000	Improvement Series D	4%	Apr. 1, 1916	1,000.00	
2	Nos. 2 and 3	1,000	City Funding	3½%	Apr. 1, 1919	2,000.00	
	Bonds on hand					$19,000.00	
	Cash on hand					20,317.53	
							$39,317.53

MUNICIPAL LOAN.

For the payment of bonds maturing July 1, 1922.

No. of Bonds Held.	Descriptive No. of Bonds.	Value of Bond.	Kind.	Rate of Interest.	Due.	Amount.	
	City of Manchester, note payable June 30, 1913					$3,850.00	
2	Nos. 1 and 2	$1,000	Improvement Series A	4%	Jan. 1, 1913	2,000.00	
1		1,000	Water	4%	Oct. 1, 1914	1,000.00	
4	Nos. 52, 53, 54, 55	1,000	Water	4%	Jan. 1, 1917	4,000.00	
3	Nos. 26, 27, 28	1,000	Refunding	3½%	Apr. 1, 1925	3,000.00	
11	Nos. 91 to 100 inc	1,000	Improvement Series C	4%	Apr. 1, 1915	11,000.00	
17	Nos. 34, 45 to 60 inc	1,000	Municipal	3½%	July 1, 1922	17,000.00	
	Note and bonds on hand					$41,850.00	
	Cash on hand					3,888.45	
							$45,738.45

CITY FUNDING LOAN.

For the payment of bonds maturing April 1, 1919.

No. of Bonds Held.	Descriptive No. of Bonds.	Value of Bond.	Kind.	Rate of Interest.	Due.	Amount.	
	City of Manchester, note payable June 30, 1913	.....	.....	.....	.....	$9,000.00	
13	Nos. 1, 58 to 69 inc.	$1,000	City Funding	3½%	Apr. 1, 1919	13,000.00	
1	No. 2	1,000	Water Series B	4½%	Nov. 1, 1913	1,000.00	
1	Nos. 177	1,000	School	4%	July 1, 1913	1,000.00	
14	Nos. 1, 2, 3, 4, 5, 72 to 80 inc.	1,000	Municipal	3½%	July 1, 1922	14,000.00	
23	Nos. 7, 22 to 28 inc., 76 to 90 inc.	1,000	Improvement Series C	4%	Apr. 1, 1915	23,000.00	
1	No. 50	1,000	Improvement	4%	Apr. 1, 1916	1,000.00	
3	Nos. 2, 4, 23	1,000	Water	4%	Oct. 1, 1914	3,000.00	
6	.....	.....	Water	4%	Jan. 1, 1917	6,000.00	
	Note and bonds on hand	.....	.....	.....	.....	$71,000.00	
	Cash on hand	.....	.....	.....	.....	2,201.52	
							$73,201.52

CITY REFUNDING LOAN.

For the payment of bonds maturing April 1, 1925.

No. of Bonds Held.	Descriptive No. of Bonds.	Value of Bond.	Kind.	Rate of Interest.	Due.	Amount.	
15	Nos. 1, 2, 3, 4, 14 to 23 inc., 70	$1,000	Water	4%	July 1, 1915	$15,000.00	
	Cash on hand	.....	.....	.....	.....	4,426.88	
							$19,426.88

REFUNDING CITY LOAN.

For the payment of bonds maturing April 1, 1927.

No. of Bonds Held.	Descriptive No. of Bonds.	Value of Bond.	Kind.	Rate of Interest.	Due.	Amount.	
2	Nos. 30 and 31	$1,000	Water	4%	Oct. 1, 1914	$2,000.00	
4	Nos. 37, 66, 69, 70	1,000	Water	4%	Jan. 1, 1917	4,000.00	
	Bonds on hand					$6,000.00	
	Cash on hand					7,334.35	
							$13,334.35

IMPROVEMENT LOAN, SERIES E.

For the payment of bonds maturing April 1, 1930.

Cash on hand $15,404.00

CEMETERY LOAN.

For the payment of bonds maturing October 1, 1930.

Cash on hand $5,131.50

Total amount of Sinking Fund $739,192.05

JAMES E. DODGE,
City Auditor.

REPORT OF THE CITY PHYSICIAN.

REPORT OF THE CITY PHYSICIAN.

To His Honor the Mayor and City Councils of the City of Manchester, N. H.:

GENTLEMEN:—I herewith submit my annual report as city physician of Manchester for the year 1912.

The number of new patients treated, not including those at the Isolation hospital, the police station, the board of health or for the street and park commission, was 28. This necessitated 400 house calls and 163 office calls. The number of new patients per ward was as follows:

Ward 1, patients treated	1
Ward 2, patients treated	1
Ward 3, patients treated	2
Ward 4, patients treated	4
Ward 5, patients treated	3
Ward 6, patients treated	3
Ward 7, patients treated	2
Ward 8, patients treated	3
Ward 9, patients treated	8
Ward 10, patients treated	1
Total	28

Visits to the police station, 183.

Visits to Isolation hospital, 125.

Accidents for street and park commission, 6.

Visits for board of health, 14.

Respectfully submitted,

JOHN C. O'CONNOR,

City Physician.

REPORT OF THE OVERSEER OF THE POOR.

REPORT OF THE OVERSEER OF THE POOR.

To His Honor the Mayor and Gentlemen of the City Council:

I am submitting to you my second annual report as overseer of the poor for the year 1912.

The following is a tabulation of the money expenditures for the year 1912.

Total number of orders given during the year is 2,142, divided as follows:

Amount of appropriation			$18,000.00
	No. Orders	Amount	
For groceries	1,346	$12,045.04	
fuel	221	545.01	
rent	69	374.00	
board and care	96	871.50	
institutions	242	2,793.61	
shoes	58	196.97	
medicine	27	49.09	
transportation	12	43.26	
funeral expenses	9	195.00	
clothing	3	3.09	
medical and optical	7	27.00	
city physician	52		
	2,142	$17,143.57	
Medical supplies for city physician		46.10	
			$17,189.67
Balance			$810.33

AMOUNTS SPENT EACH MONTH.

December	$1,064.23
January	1,456.97
February	1,447.41
March	1,462.67
April	1,429.51
May	1,408.58
June	1,385.92
July	1,418.57
August	1,508.28
September	1,446.44
October	1,499.35
November	1,661.74
	$17,189.67

BOARD AND CARE.

Beauchemin, Fred, Mrs	$88.00
Berquist, Henry	132.00
Cote, Ibrahim	110.00
Chaput, Napoleon	110.00
Donnelly, John	108.00
Draper, Martha Mrs	90.00
Lewis, Melvin	110.00
St. Jean, Eva, Mrs	10.00
Wilson, John, Mrs	66.00
Welcome, G. S	47.50
	$871.50

AMOUNTS SPENT EACH MONTH.

January	$92.00
February	73.00
March	73.00
April	78.50
May	79.00
June	79.00
July	79.00
August	79.00
September	79.00
October	71.00
November	89.00
	$871.50

INSTITUTIONS.

Hillsborough county farm	$346.78
Hillsborough county hospital	399.43
St. Vincent de Paul	108.00
Notre Dame hospital	41.00
Notre Dame orphanage	468.00
Old Ladies' home	238.50
St. Joseph's boys' home	192.00
St. Patrick orphanage	222.00
St. Peter orphanage	623.90
Elliot hospital	38.00
King's Daughters Benevolent association	20.00
Manchester Children's home	96.00
	$2,793.61

AMOUNTS SPENT EACH MONTH.

December	$56.00
January	173.16
February	254.29
March	199.36
April	209.71
May	234.58
June	244.72
July	289.98
August	279.93
September	275.43
October	272.87
November	303.58
	$2,793.61

GROCERS.

Bellefeuille, Paul	$93.00
Bureau, Joseph	660.90
Bourgeois & Co	120.00
Boisvert, George	56.00
Baribeau & Cote	54.00
Bournival, Arsene	174.00
Bouchard, J. B	8.00
Barbeau Bros	7.00
Carrier, John	180.00
Clark, C. H., & Sons	77.00
Dumas & Prince	21.50
Dumas, Jos	374.85
Dancose Bros	22.00
Dusseault & Co	306.00
Dubois, O. F	268.00
Daigle, Napoleon	175.98
Dubois, Eugene	447.00
Demers, Joseph	110.00
Ducharme Bros	139.60
Gorman Bros	204.90
Griffin, James J	72.00
Gagne, A. J	471.20
Gelinas, Ernest	256.97
Gagnon, S. E	48.00
Grenier, P. F	40.00
Gaudette Bros	162.00
Gaillardet & Rivard	88.00
Griffin & Duguay	1,278.10
Hermsdorf A. P	96.00

Haggerty, J. B.	$90.00
Healy, John	417.95
Hecker, R.	6.18
Hamel, O. H.	36.00
Johnson, Martin	111.53
Kane, John A	192.00
Kennedy, Peter	10.00
Kennedy & Sweet	5.00
Lauiel Street Market	139.00
Lamoureaux Bros	148.00
Labrecque, T. J.	72.00
Lemay, A. D	42.67
Lindquist, J. A	24.00
Lafond, Norbert	213.81
LaSalle, A. S	60.00
Leblond, Jos	36.00
Martel & Valliere	90.00
McNulty, M. J	95.81
McLaughlin & Day	116.00
McDuffee, Oscar	208.00
Morin, N. P	11.91
Twentieth Century Market	162.00
Nourie, A	21.00
Normand, Charles	120.00
Newcomb, C. E.	181.57
Pinard, Edmond	330.00
Pariseau, Hertel	117.00
Pearson, August	204.00
Peloquin, Mathias	318.00
Prince, A. H.	104.00
Parnell Bros	83.00
Provost, J. A.	22.00
Pearl Street Market	29.40
Quirin, E., & Co	382.00
Robitaille, A. L.	246.00
Robinson, G. T	171.64
Rouleau & Messier	165.00
Summer Street Market	25.00
Trahan, Joseph	71.78
Tennent, K. R	15.00
Turgeon, Arthur	28.00
Voisard, E. C.	722.79
Vezina, H. T	136.00
Verrette, Moise	172.00
Wiggin & Young	80.00
	$12,045.04

AMOUNTS SPENT EACH MONTH.

December	$889.37
January	924.37
February	981.00
March	1,048.71
April	1,021.50
May	1,024.50
June	986.47
July	1,001.00
August	1,000.10
September	1,011.01
October	1,033.40
November	1,123.61
	$12,045.04

WOOD AND COAL.

Boisclair, Charles	$31.50
Blanchard, J. B.	8.00
DeCourcy, J. H.	11.50
Dery, J. M.	30.38
Duplessis, F. V.	32.50
Flint, C. A., & A. W.	2.00
Forest, William	93.75
Fifield, T. F.	2.75
Fellows & Son	10.00
Groux, George	22.00
Haskell, E. C.	7.00
Lessard, Charles	23.50
Lessard & Richard	6.00
Masse, Joseph	63.50
Manchester Coal & Ice Co	13.00
Moore & Preston	47.63
Northern New England Coal Co	22.00
People's Gas Light Co	9.00
Raiche & Prince	38.50
Russell, J. P.	17.00
Union Coal Co	25.00
Weber, Henry	19.00
Campbell, George A.	1.25
Smith Box & Lumber Co	8.25
	$545.01

AMOUNTS SPENT EACH MONTH.

December	$38.75
January	92.75
February	77.25

March	$85.50
April	61.00
May	38.50
June	20.25
July	6.50
August	20.75
September	31.50
October	28.50
November	43.76
	$545.01

SHOES AND RUBBERS.

Brigham, E. C.	$2.50
Beaumier, A. T.	8.00
Chagnon, E. C.	18.00
Chase, L. H., Shoe Co	11.50
Cumming, Ernest	6.00
Duke & Whitney	3.22
Dubois, O. E.	2.65
Dodge, G. W., Shoe Co	18.00
Family Shoe Store	3.00
Gosselin, Gedeon	10.00
Gelinas, Theophile	3.00
Gregoire, S. W.	8.00
Heath Shoe Store	11.15
New Idea Shoe Co	18.25
Pariseau, C., & Co	15.50
Pellerin & Simard	5.45
Raymond, J. A.	18.00
Schlough, Gustaf	4.50
Woodman Shoe Co. Inc	30.25
	$196.97

AMOUNTS SPENT EACH MONTH.

December	$41.85
January	10.15
February	8.87
March	14.15
April	20.75
May	6.50
June	13.45
August	14.00
September	20.50
October	19.25
November	27.50
	$196.97

CLOTHING.

Hill, James W	$1.09
McDonough, M. A	2.00
	$3.09

AMOUNTS SPENT EACH MONTH.

January	$0.50
July	.59
November	2.00
	$3.59

RENT.

Beaudet, Clement	$28.00
Belisle, G. N	38.50
Dumas, Joseph	97.00
Flanders, Eugene G	6.00
Hebert, Thomas	99.00
Keefe, Robert, Mrs	24.00
Volkman, Henry	13.50
Straw, J. R	4.00
Whittier & Foster	24.00
West Side Lumber Co	40.00
	$374.00

AMOUNTS SPENT EACH MONTH.

December	$19.00
January	34.50
February	30.50
March	32.50
April	34.50
May	22.50
June	32.00
July	38.50
August	34.50
September	29.00
October	34.50
November	32.00
	$374.00

TRANSPORTATION.

Boisclair, Charles	$1.00
Bouffard & Letendre	5.50
Benoit, A. N	5.00
Halde, Albert	3.00
McGrath, Matthew	5.50
Roy & Gadbois	9.50

Robinson, D. L.	$3.00
Riordan, George P.	10.76
	$43.26

AMOUNTS SPENT EACH MONTH.

February	$2.50
March	8.00
May	3.00
June	5.18
August	7.00
October	17.58
	$43.26

FUNERAL EXPENSES.

Boisclair, Charles	$25.00
Bouffard & Letendre	10.00
McDonough, J., & Co.	30.00
Richardson, C. H.	25.00
Roy & Gadbois	35.00
Wallace, F. L.	50.00
Goodwin, E. D.	20.00
	$195.00

AMOUNTS SPENT EACH MONTH.

January	$105.00
February	20.00
August	70.00
	$195.00

MEDICAL AND OPTICAL SERVICES.

Dr. G. M. Davis	$5.00
Dr. Ezra A. Jones	3.00
Dr. M. E. Kean	3.00
Dr. J. E. Lemaitre	3.00
Dr. E. C. Tremblay	3.00
Dr. F. J. Pherson	3.00
Brown & Burpee	7.00
	$27.00

AMOUNTS SPENT EACH MONTH.

July	$3.00
August	3.00
October	9.00
November	12.00
	$27.00

MEDICINE.

Dunnington, Herbert	$1.20
Doucet, J., & Co	1.45
Hall, John B., & Co	3.65
Giguere, Oscar	1.95
Kerwin & Sheehan	9.25
LeBlanc & Provencher	15.44
Miville, F. C	1.35
Marshall, J. A	4.90
Marshall, J. H	1.45
Precourt, A. J	2.10
Precourt, Archie	3.30
Walsh & Cummings	3.05
	$49.09

AMOUNTS SPENT EACH MONTH.

December	$1.20
March	1.45
April	3.55
June	4.85
October	13.25
November	24.79
	$49.09

MEDICAL SUPPLIES.

Dufort, Charles	$24.04
Dunnington, Herbert	18.06
Giguere, Oscar	3.50
Hall, John B., & Co	.50
	$46.10

AMOUNTS SPENT EACH MONTH.

December	$18.06
January	24.54
November	3.50
	$46.10

INDIGENT SOLDIERS AND THEIR DEPENDENT FAMILIES.

Amount of appropriation			$400.00
For groceries, M. Verrette	$95.90		
E. W. Lewis	24.00		
		$119.90	
For fuel, J. P. Russell	$24.50		
Union Coal Co	3.00		
		27.50	

For rent, Matthew Malloy	$110.00		
M. L. Hartford	12.00		
		$122.00	
For board and care, Thomas Mitcheson		110.00	
medicine, John B. Hall Co		.65	
			$380.05
Balance on hand January 1, 1913			$19.95

SUPPLIES, STATIONERY, ETC.

Appropriation				$250.00
1911.				
Sept.	19.	To W. P. Goodman	$0.10	
Dec.	31.	New England Tel. Co.	2.00	
	11.	George D. Fitts	2.60	
	12.	L'Avenir National	6.25	
	13.	Manchester Union	11.73	
	15.	Temple & Farrington Co	24.75	
	16.	E. A. Stratton Co	23.50	
	12.	John B. Clarke Co	11.75	
1912.				
Jan.	8.	E. C. Chadbourne	4.00	
	22.	Leo Nobert Sign Co	2.00	
	31.	New England Tel. Co.	2.00	
Feb.	1.	George D. Fitts	3.50	
	14.	W. P. Goodman	5.25	
	28.	Ruemely Press	5.25	
	29.	New England Tel. Co.	2.00	
Mar.	11.	E. C. Chadbourne	10.00	
	27.	R. D. Fradd	2.50	
	31.	New England Tel. Co.	2.00	
April	30.	New England Tel. Co.	2.00	
May	17.	W. P. Goodman	1.70	
	31.	New England Tel. Co.	7.10	
June	26.	W. P. Goodman	.25	
	30.	New England Tel. Co.	2.00	
July	31.	New England Tel. Co.	2.00	
Aug.	31.	New England Tel. Co.	2.00	
Sept.	4.	E. C. Chadbourne	10.00	
	5.	R. W. Stockbridge (rental of adder)	30.00	
	16.	Standard Ice Co	3.80	
	30.	New England Tel. Co.	2.00	
Oct.	17.	The Novelty Co	5.50	

Oct.	29.	To W. P. Goodman	$2.10	
	30.	New England Tel. Co.	2.00	
Nov.	29.	W. P. Goodman	3.50	
	30.	New England Tel. Co.	2.00	
Dec.	5.	James A. Scully	1.75	
	9.	The Ruemely Press	4.50	
	10.	The John B. Clarke Co.	19.25	
	11.	Carl S. Magoon	3.00	
	14.	John B. Varick Co.	21.00	
	16.	E. C. Chadbourne	6.37	
				$250.00

TRANSPORTATION.

Appropriation		$150.00
Manchester Street Railway	$92.50	
Boston & Maine Railroad	20.00	
Roy & Gadbois	31.50	
Charles Boisclair	6.00	
		$150.00

RECAPITULATION.

Appropriation			$20,600.00
Paupers' account		$17,189.67	
Soldiers' account		380.05	
Supplies' account		250.00	
Transportation		150.00	
Salaries		1,800.00	

CASH BALANCES.

Paupers' account	$810.33		
Soldiers' account	19.95		
		830.28	
		$20,600.00	$20,600.00

JOSEPH L. BOUDREAU,
Overseer of the Poor.

REPORT

OF THE

BOARD OF PUBLIC WORKS

REPORT OF THE BOARD OF PUBLIC WORKS.

OFFICE OF THE BOARD OF PUBLIC WORKS.

MANCHESTER, N. H., December 31, 1912.

To His Honor the Mayor, the Board of Aldermen, and the Common Council of the City of Manchester, N. H.:

GENTLEMEN.—We herewith submit the eighteenth annual report, which comprises the details of the operations conducted by the department of highways, sewers, street cleaning, and parks and commons for the year 1912.

MAYOR EDWARD C. SMITH, *Chairman,*
WILLIAM McELROY,
BYRON WORTHEN,
Board of Public Works.

Organization for the Year.

MAYOR EDWARD C. SMITH, *Chairman.*
WILLIAM McELROY.
BYRON WORTHEN.
SAMUEL J. LORD, *Engineer.*

OFFICE.

Harrie H. Clement, chief clerk.
Felix A. Lepage, assistant clerk.
Leon B. Stevens, assistant clerk.

HIGHWAY AND SEWER DEPARTMENT.

George P. Ames, superintendent, Division No. 2.
Emile A. Blanchet, timekeeper, Division No. 2.
Alphonse Laberge, superintendent, Division No. 10.
Harry T. George, timekeeper, Division No. 10.
Charles Francis, superintendent and timekeeper, Division No. 7.
Shirley Merrill, superintendent and timekeeper, Division No. 5.
Byron E. Moore, superintendent and timekeeper, Division No. 4.
Nelson W. Paige, superintendent and timekeeper, Division No. 9.

STREET CLEANING DEPARTMENT.

Levi J. Proctor, superintendent.
Sewall A. Blood, timekeeper.

PARKS AND COMMONS DEPARTMENT.

A. J. Seastrom, superintendent and timekeeper.

The following contracts were awarded by the board during the year:

Brick—W. F. Head & Son, Hooksett, N. H.

Broken Stone—Massachusetts Broken Stone Co., Salem, Mass.; Essex Trap Rock & Construction Co., Peabody, Mass.; Waltham Trap Rock Co., Waltham, Mass.

Brown-Tail Moth—Daniel F. Cronin, Manchester, N. H.

Cement—Henry W. Parker, Manchester, N. H.

City Farm—Leased from aldermanic committee on city farm.

City Yard—Amoskeag Manufacturing Co., Manchester, N. H.

Elm-Leaf Beetle—Daniel F. Cronin, Manchester, N. H.

Granite Curbing—Palmer & Garmon, Manchester, N. H.; Charles A. Bailey, Suncook, N. H.

Granite Paving Blocks—Charles A. Bailey, Suncook, N. H.

Iron Castings—Concord Foundry & Machine Co., Concord, N. H.

Lumber—Benjamin F. Greer, Grasmere, N. H.; Cavanaugh Bros. & Maxwell, Manchester, N. H.

Oats—Arthur S. Brown (2 cars), Manchester, N. H.; F. H. Masse & Co. (1 car), Manchester, N. H.

Plants—Fred J. Bixby, Manchester, N. H.

Scavenger Service—Mrs. William H. Bickford, Manchester, N. H.

Sewer Pipe—Eastern Clay Goods Co., Boston, Mass.

State Aid—Hanover St., James F. Cavanaugh, Manchester, N. H.

Truck (Federal)—William C. Spear, Manchester, N. H.

Truck (Peerless)—William C. Spear, Manchester, N. H.

Cash was paid into the city treasury for labor done or material furnished (or both) by this department by persons, firms or corporations, and credited to appropriations as listed in the following schedules.

All moneys are paid direct to the city treasurer and do not pass through the hands of the board.

Name.	Appropriation.	Total
Abbott, C. W.	Grading for concrete	$4.70
Adams Bros.	Grading for concrete	3.30
Adams Bros.	Grading for concrete	14.25
Allen Co. C. A.	City teams	67.49
Allison, Phillip	Grading for concrete	1.68
Amoskeag Automobile	Repairs of sewers	2.24
Bach, Henry	City teams	533.20
Benway, A. D.	Repairs of sewers	5.28
Bisson & Jodoin	Grading for concrete	2.00
Bond, F. W.	Grading for concrete	5.13
Bond, J. H.	Grading for concrete	1.05
Boyce, C. F.	Repairs of sewers	2.20
Bresnahan, B.	Derryfield Park	1.00
Brown, Charles	Repairs of sewers	4.40
Brown, J.	Grading for concrete	2.24
Bunton & Bernard	Repairs of sewers	54.14
Cavanaugh, James F.	Repairs of sewers	21.10
Cavanaugh, James F.	Grading for concrete	6.16
Cheney, George W.	Repairs of sewers	20.00
Chernewski, B.	Grading for concrete	6.16
Chester, N. H., Town of	Grading for concrete	29.35
Colby, J. A.	Watering streets	10.00
Congdon, Mrs. Helen	Grading for concrete	1.14
Copeland, John	Grading for concrete	1.00
Corning, Dr. W. F.	Grading for concrete	11.14
Daniels Cornell Co.	Grading for concrete	3.16
Derry, N. H., Town of	Repairs of sewers	31.39
Dickey, Frank T.	Grading for concrete	1.69
Deschenes, Jules	Repairs of sewers	1.02
Eastman, Arthur W.	Grading for concrete	8.00
Ellis, H. B.	Grading for concrete	9.70
Everitt, W. G.	Grading for concrete	6.54
Fenton & Charnley	Grading for concrete	73.87
Ferguson, Mrs. Eleonora J.	Repairs of sewers	39.03
Griffin & Duguay	Grading for concrete	4.20
Griffin Co., W. H.	Grading for concrete	2.50
Griffin Co., W. H.	Grading for concrete	2.50
Hassam Paving Co.	Grading for concrete	11.29
Hooksett, N. H., Town of.	Grading for concrete	8.40
Independent Oil Co.	Grading for concrete	4.40
Johnson, O. H.	Grading for concrete	2.00
Jutras, F.	Grading for concrete	7.33
Labrecque, J.	Grading for concrete	5.20
Landrigan, F. F.	Grading for concrete	.44
Leighton, F. D.	Grading for concrete	23.50
Ley Co., F. T.	Repairs of sewers	1.32
Ley Co., F. T.	Repairs of sewers	72.00
Ley Co., F. T.	Grading for concrete	319.37
Lindsay, J. W.	Repairs of sewers	1.82
Luby, Joseph	Repairs of sewers	40.00
Manchester Street Railway.	Repairs of sewers	84.00
Manchester Street Railway.	City teams	6,159.48
Manchester Street Railway.	Grading for concrete	5.48
Manchester Street Railway.	Snow and ice, and cleaning streets	1,532.91
Manchester Street Railway.	Paving streets	8,007.70
Manchester Street Railway.	Paving streets	2,641.80
Manchester Street Railway.	Macadamizing and new highways	4,787.44
Manchester Street Railway.	Grading for concrete	383.60
Manchester Water Works.	Grading for concrete	110.97
Manchester Water Works.	Repairs of sewers	.10
Maryland Casualty Co.	Scavenger service	91.65
Manchester Water Works.	Repairs of sewers	25.36
Matheson, Robert	Repairs of sewers	10.75
Matheson, Robert	Repairs of sewers	22.36
Matheson, Robert	Grading for concrete	7.38
McDonald, C. F.	Repairs of sewers	11.99
Meara, Timothy	Grading for concrete	.34
Mendell, Co., The J. H.	Grading for concrete	58.03
Moran, John	Grading for concrete	3.80
Nettleton, Charles F.	Grading for concrete	26.12
New England Tel. & Tel. Co.	Repairs of sewers	18.29

NAME.	Appropriation.	Total
New England Tel. & Tel. Co.	Grading for concrete	23.21
New England Tel. & Tel. Co.	Grading for concrete	.88
Normand & Son, N.	Grading for concrete	6.00
Normandeau, J. E.	Grading for concrete	100.00
Ouellette, Paul	City teams	90.00
Palmer & Garmon	Grading for concrete	13.66
People's Gas Light Co.	Repairs of sewers	220.50
People's Gas Light Co.	Grading for concrete	266.84
People's Gas Light Co.	Grading for concrete	26.63
People's Gas Light Co.	Grading for concrete	16.96
People's Gas Light Co.	Grading for concrete	42.54
People's Gas Light Co.	Grading for concrete	76.15
People's Gas Light Co.	Grading for concrete	1.17
People's Gas Light Co.	Grading for concrete	11.23
People's Gas Light Co.	Grading for concrete	32.31
People's Gas Light Co.	Grading for concrete	153.16
Phillips, Grace A.	Repairs of sewers	4.40
Pike & Heald	Grading for concrete	3.90
Pike & Heald	Repairs of sewers	15.40
Pine Grove Cemetery	Repairs of sewers	156.50
Pine Grove Cemetery	Grading for concrete	578.80
Poore Coal Co., D. M.	Grading for concrete	5.57
Rand, G. D.	Grading for concrete	7.20
Rouillard, E.	Grading for concrete	9.40
Sanborn, A. H.	Grading for concrete	3.50
School Board	Snow and ice, and cleaning streets	4.38
Seastrom, John	Derryfield Park	7.90
Sloshberg, Charles	Repairs of sewers	.25
Stearns, J.	Grading for concrete	1.12
Stevens, John H.	Grading for concrete	8.25
Straw, W. P.	Grading for concrete	2.00
Tax Collector	Brown-tail and Gypsy Moth	1,016.47
Tetu, Frank	Grading for concrete	11.20
Varick Co., John B.	Grading for concrete	18.89
Weare, N. H., Town of	Grading for concrete	3.60
Whipple, W. E.	Derryfield Park	1.00
Zing, J. I.	Grading for concrete	4.40
		$28,425.94

POLE LOCATIONS GRANTED AND REVOKED DURING THE YEAR 1912.

Location.	Limits.		Date.	Pole Locations.	
				Granted.	Revoked.
Boutwell, east side	Amory to Kelley	n	June 18	6	...
C, south side	Between Boynton and B	n	June 18	1	...
Calef road, west side	Hillcrest to Rosedale avenue	n	June 18	3	...
Calef road, west side	Rosedale to Elmhurst avenue	n	June 18	2	...
Calef road, west side	Elmhurst avenue to Harrington avenue	n	June 18	2	...
Calef road, west side	Harrington avenue to Elmwood avenue	n	June 18	2	...
Calef road, west side	Elmwood avenue to Rosemont avenue	n	June 18	2	...
Columbus, east side	Amory, southerly	n	June 18	2	...
Corning road, west side	Conant road, southerly	n	June 18	18	...
Elm, east side	Baker, southerly	n	June 18	5	...
Elm, west side	Baker, southerly	n	June 18	1	...
Fogg avenue, north side	Highland avenue, easterly	n	June 18	4	...
Glenwood avenue, north side	Page to Lovering	n	June 18	3	...
Glenwood avenue, north side	Lovering, easterly	n	June 18	1	...
Goffstown road, south side	Straw road, westerly	n	June 18	9	...
Granite, north side	South Main, easterly	n	June 18	1	...
Green, north side	Pine, east side	n	June 18	1	...
Green south back, south side	Union to Beech	n	June 18	6	...
Green south back, south side	Union, westerly	n	June 18	3	...
Hall, west side	Harvard, southerly	n	June 18	1	...
Harvard, south side	Hall, westerly	n	June 18	3	...
Hayward, south side	Taylor, westerly	n	June 18	1	...
High, East, south side	Highland, easterly	n	June 18	2	...
Highland, east side	East High to Lowell	n	June 18	4	...
Hillcrest avenue, south side	Brown avenue, easterly	n	June 18	6	...
Island Pond road, northerly side	Lake Shore road, easterly	n	June 18	16	...
Island Pond road, northerly side	Lake Shore road, westerly	n	June 18	1	...
Island Pond road, southerly side	From a point south of Dickey road at Lovering residence, southeasterly	n	June 18	12	...
Island Pond road, south side	Dickey road, westerly	n	June 18	9	...
Jones, west side	Nelson, northerly	n	June 18	3	...
Kelley, north side	Alsace to Joliette	n	June 18	....	2
Kelley, north side	Joliette, westerly	n	June 18	....	1
Kelley, south side	Alsace to Joliette	n	June 18	3	...
Kelley, south side	Joliette to Laval	n	June 18	2	...
Kelley, south side	Laval to Boutwell	n	June 18	2	...
Kelley, south side	Boutwell, westerly	n	June 18	2	...

POLE LOCATIONS GRANTED AND REVOKED DURING THE YEAR 1912.—*Concluded.*

Location.	Limits.		Date.	Pole Locations.	
				Granted.	Revoked.
Laurel, south side	Hall, westerly	n	June 18	3	...
Log, north side	South Main, easterly	n	June 18	1	...
Lovering, east side	Glenwood avenue, southerly	n	June 18	1	...
Lowell, south side	Pine, east side	p	June 28	....	1
Mammoth road, east side	Mooresville road, northerly	n	June 18	11	...
McDuffie, north side	Boynton, westerly	n	June 18	1	...
Oakland avenue, south side	Woodland avenue, west side	n	June 18	1	...
Pearl, south side	Pine, westerly	n	June 18	1	...
Pine, east side	Between Lowell and Seneca lane	p	June 28	1	...
Pine, east side	Lowell, northerly	p	June 28	1	...
Porter avenue, northwesterly side	Amherst, northeasterly	n	June 18	1	...
Proctor road, easterly side	Hanover, southerly to Candia road	n	June 18	3	...
Proctor road, easterly side	Candia road, southerly	n	June 18	4	...
River road, south side	Union, westerly	n	June 18	8	...
River road, north side	Union, westerly	n	June 18	4	...
Thornton, west side	Putnam to Sullivan	n	June 18	5	...
Thornton, west side	Sullivan, southerly	n	June 18	3	...
Union, west side	Arah to River road	n	June 18	35	...
Webster, north side	Smyth road, westerly	n	June 18	2	...
Weston, west side	Concord to Lowell	n	June 18	4	...
Westland avenue, south side	Brown avenue to Dunbar	n	June 18	15	...
Woodland avenue, west side	Oakland avenue, northerly	n	June 18	3	...
				247	4

n New England Telephone & Telegraph Co.
p Postal Telegraph and Cable Co.

The office of the board of public works has issued permits during the year 1912 as follows:

Building cesspool	1
Building wall	3
Changing door	1
Changing location of tracks	2
Changing store front	1
Cleaning cellar	1
Cleaning sewer	1
Cleaning snow from roof	24
Conducting auction sale	1
Connecting with sewer	209
Connecting water pipe	1
Constructing bridge	1
Cutting down trees	2
Digging cellar	1
Double tracking street	2
Dumping brick on sidewalk	1
Dumping gravel in street	1
Erecting awning over sidewalk	1
Erecting building	19
Erecting flag pole	1
Erecting skylight	1
Erecting staging	5
Exhibition	3
Fire alarm	1
Garbage permits	98
Hanging banner	1
Holding public meeting	2
Hoisting beams over sidewalk	1
Installing boilers	6
Laying soil pipe	1
Laying water pipe	3
Leaving loaded sled in street	1
Loading and unloading granite	2
Loading and unloading merchandise	2
Loading and unloading stone	5
Mixing mortar in street	2
Moving building	11
Moving long timbers	13
Moving safe	6
Opening manholes	9
Painting building	3
Painting sign	1
Parade	3
Piling brick in street	2

Piling doors in street	1
Piling lumber in street	15
Piling sand on sidewalk	4
Piling stone in street	2
Putting in gas pipe	1
Putting in new foundation	1
Putting in safe	3
Putting in new store front	2
Putting in new sidewalk	3
Putting in and repairing underground conduit	25
Putting in windows	1
Putting on tar roof	1
Putting up sign	7
Relaying steam pipe	1
Relaying track	1
Removing empty butter tubs	1
Removing siding	1
Removing street car	1
Repairing bell tower	1
Repairing building	26
Repairing cellar	1
Repairing driveway	1
Repairing foundation	1
Repairing lights	1
Repairing roof	4
Repairing sewer	60
Repairing sidewalk	1
Repairing track	10
Repairing water pipe	2
Setting up derrick	1
Setting up tar kettle	2
Storing iron column in street	1
Storing fireworks in Valley Street yard	1
Unloading cars	1
Unloading coal	10
Unloading flour	1
Unloading hay	2
Unloading machinery	3
Unloading monument	1
Unloading oats	1
Unloading piano	1
Unloading safe	4
Unloading soda fountain	1
Unpacking goods	28
Total number of permits granted	692

BOARD OF PUBLIC WORKS.

Financial Statement.

For	To	Cr.		Dr.	By	For
Advertising	John B. Clarke Co.	$123.61		$13,100.00	Common Council	Board of Public Works.
	L'Avenir National	53.25				
	Manchester Union Co.	128.12				
			$304.98			
Auto hire	Brodie Electric & Auto Co.	$7.50				
	Smith & Johnson	7.50				
	William C. Spear	7.50				
			22.50			
Book binding	Temple & Farrington		32.40			
Entertaining	Edward C. Smith		17.25			
Freight	Boston & Maine R. R.		.72			
Ice	Standard Ice Co.		5.05			
Miscellaneous expenses	Harrie H. Clement		38.45			
Office supplies	E. H. Chadbourne, P. M.	$50.00				
	George D. Fitts	3.40				
	L. G. Flanders	4.00				
	W. P. Goodman	52.66				
	John B. Hittel, Sec.-Treas.	5.00				
	Ideal Stamp Co.	3.95				
	Kee Lox Mfg. Co.	34.10				
	Francis Pratt, Jr.	1.50				
	E. G. Soltmann	3.40				
	R. P. Stevens Co.	108.75				
	Temple & Farrington Co.	.75				
	Samuel Ward Co.	3.25				
	J. Arthur Williams	2.55				
			273.31			
Printing	John B. Clarke Co.	$169.75				
	The Ruemely Press	240.35				
	J. Arthur Williams	49.00				
			459.10			
Repairing time stamp	Carl W. Anderson		3.00			

BOARD OF PUBLIC WORKS.—*Concluded.*

Financial Statement.

For	To	Cr.		Dr.	By	
Salaries of members of Board of Public Works	William McElroy	$750.00				
	Byron Worthen	750.00				
			1,500.00			
Salary of Engineer	Samuel J. Lord		1,559.96			
Salaries of Superintendents	Geo. P. Ames	1,500.02				
	Charles Francis	1,200.00				
	Alphonse Laberge	1,200.00				
	John P. Young	499.99				
			4,400.01			
Salary of Timekeeper	Emile A. Blanchet		917.28			
Salaries of Clerks	Harrie H. Clement	$1,303.77				
	Edson W. Keith	214.20				
	Felix A. Lepage	625.92				
	Henry J. Quigley	47.00				
	E. Park Stevens	82.96				
	Leon B. Stevens	410.58				
			2,684.43			
Subscriptions	Municipal Journal & Engineer	$3.00				
	E. L. Powers Co.	1.00				
			4.00			
Team hire	Lewis Vogel		5.00			
Telephones	N. E. T. & T. Co.		266.29			
Traveling expenses	William McElroy	$44.44				
	Byron Worthen	17.00				
			61.44			
			$12,595.17	$13,100.00		
Balance	Common Council		504.83			
			$13,100.00	$13,100.00		

APPROPRIATION FOR BOARD OF PUBLIC WORKS.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Advertising	$304.98	.0242
Auto hire	22.50	.0018
Book binding	32.40	.0026
Entertaining	17.25	.0013
Freight	.72	.0001
Ice	5.05	.0004
Miscellaneous expenses	38.45	.0031
Office supplies	273.31	.0217
Printing	459.10	.0365
Repairs	3.00	.0002
Salaries	11,101.68	.8814
Subscriptions	4.00	.0003
Team hire	5.00	.0004
Telephones	266.29	.0212
Traveling expenses	61.44	.0048
Total expenditures	$12,595.17	.....
Appropriation	.....	$13,100.00
Balance	504.83	
	$13,100.00	$13,100.00

HIGHWAY DEPARTMENT.

BRIDGES, CITY TEAMS, CITY YARD, GRADING FOR CONCRETE, MACADAMIZING, NEW HIGHWAYS, PAVING STREETS, REPAIRS OF HIGHWAYS, WATERING STREETS, BROWN-TAIL AND GYPSY MOTHS, CUTTING AND TRIMMING TREES, AND ELM LEAF BEETLE.

APPROPRIATION FOR BRIDGES.

Financial Statement.

For	To	Cr.		Dr.	By	For
Carbolineum	Carbolineum Wood Preserving Co.	.....	$44.28	$9,955.00	Common Council	Bridges.
Freight	Boston & Maine R. R.	.....	66.47			
Labor and material.	Amoskeag Mfg. Co.	$171.17				
	John Winters	.60				
			171.77			
Liability insurance	Putnam & Laflamme	.....	94.93			
Lumber	Cavanaugh Bros. & Maxwell	$566.60				
	B. F. Greer	154.56				
	Geo. McQuesten Co.	232.05				
			953.21			
Paint	Detroit Graphite Co.	.....	809.83			
Painting McGregor bridge (contract)	United Construction Co.	.....	3,789.26			
Pay-roll	Division No. 2	$420.41				
	5	47.20				
	7	625.47				
	9	18.09				
	10	90.56				
			1,201.73			
Repairing tar concrete	Robie Cons. Concrete Co.	.....	257.76			
Supplies	Geo. W. Dodge Shoe Co.	$12.00				
	N. O. Garland	4.20				
	John B. Varick Co.	44.04				
			60.24			
			$7,449.48			
Balance	Common Council	.....	2,505.52	$9,955.00		
			$9,955.00	$9,955.00		

APPROPRIATION FOR BRIDGES.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Carbolineum	44.28	.006
Freight	66.47	.009
Labor and material	171.77	.023
Liability insurance	94.93	.0127
Lumber	953.21	.128
Paint	809.83	.1087
Painting McGregor bridge	3,789.26	.5086
Pay-roll	1,201.73	.1613
Repairing tar concrete	257.76	.0346
Supplies	60.24	.0081
Total expenditures	$7,449.48	
Appropriation	.....	$9,955.00
Balance	2,505.52	.....
	$9,955.00	$9,955.00

APPROPRIATION FOR CITY TEAMS.

FINANCIAL STATEMENT.

For	To	Cr.		Dr.		By	For
Auto registration	Edward N. Pearson	.....	$30.00	$40.00	.....	Joseph Luby	Apples.
Brick	W. F. Head & Son	.....	91.38		$67.49	C. A. Allen Co.	Hogs.
Coal	L. B. Bodwell	.....	640.27		533.20	Henry Bach	Hogs.
Disinfectant	Winchester Tar Disinfectant Co.	.....	27.50	600.69			
				90.00	.....	Paul Ouellette	Rent.
Freight and car service				6,159.48	.....	Manchester Street Ry.	Paving blocks.
	B. & M. R. R.	$24.60		20,000.00		Common Council	City teams.
	W. W. Bassett	1.00					
			25.60				
Gasoline	Standard Oil Co.	.....	32.00				
Grain	Arthur S. Brown	$2,890.25					
	F. H. Masse & Co.	1,113.49					
			4,003.74				
Hay	W. W. Bassett	$615.91					
	Rt. Rev. Geo. A. Guertin	59.12					
			675.03				
Harness repairs	Alva Silva	$124.05					
	Jos. Vogel & Co.	85.45					
			209.50				
Insurance	William G. Berry	$105.25					
	Everett & Bunton	20.00					
			125.25				
Iron castings	Concord Foundry & Mach. Co.	.....	3.55				
Land purchase	Sally Head Gault	.....	5,000.00				
Material and labor	W. L. Aller	$28.12					
	Bisson & Jodoin	1.50					
	Champagne & Charnley	14.90					
	The S. P. Dodge Co.	213.34					
	Drew Machinery Agency	5.21					
	Farrell Bros.	807.17					
	Hollis French & Allen Hubbard	103.55					
	Jere Hodge	383.11					

	George Howe	.75	
	J. B. McCrillis & Son	50.60	
	F. L. Noyes	266.35	
	F. M. Ray	2.00	
			1,876.60
Lights	M. T. L. & P. Co.	$120.11	
	People's Gas Light Co.	207.35	
			327.46
Lubricants	C. E. Mills Oil Co.	$8.30	
	Swan & Finch Co.	10.50	
	Vacuum Oil Co.	90.81	
	William H. Wardwell	3.25	
			112.86
Oil	Standard Oil Co.	.....	33.05
New equipment	S. F. Bowser & Co.	$279.63	
	W. D. Quimby	60.00	
			339.63
Pay-roll	Division No. 2	$11,202.17	
	7	2.24	
	10	74.72	
			11,279.13
Rent of City Farm	Committee on City Farm	.....	1,020.00
Supplies	Adams Bros.	$8.96	
	American Locomotive Co.	24.00	
	G. C. Blickensderfer Co.	3.00	
	Champagne & Charnley	20.35	
	Geo. W. Dodge Shoe Co.	4.50	
	N. A. Dunkler	37.20	
	A. G. Dyer	.60	
	F. K. Hubbard	8.00	
	Kimball Carriage Co.	18.25	
	Manchester Supply Co.	31.86	
	Manchester Auto Garage	244.52	
	Manchester Coal & Ice Co.	4.06	
	A. J. McKelvie	26.10	
	Smith & Johnson	1.25	
	William C. Spear	118.75	
	H. W. Parker	14.34	
	Pike & Heald Co.	53.99	
	B. M. Prescott, Jr.	42.95	
	Ranno Saddlery Co.	10.00	
	J. B. Varick Co.	1,002.50	
	West Side Lumber Co.	51.11	
			1,726.29
Team hire	Emile A. Blanchet	$168.00	
	Alphonse Laberge	156.00	
			324.00

APPROPRIATION FOR CITY TEAMS.—*Concluded.*

Financial Statement.

For	To	Cr.		Dr.		By	For
Tools	John B. Varick Co.	.....	$171.11				
Veterinary services and medicine	Dr. H. B. Dunton	$6.00					
	Dr. J. L. Golden	338.29					
	A. J. Precourt	2.40					
			346.69				
Water	Water Commissioners	.....	61.20				
			$28,481.84	$26,890.17			
				1,591.67		Common Council	Overdraft.
			$28,481.84	$28,481.84			

APPROPRIATION FOR CITY TEAMS.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Auto registration	$30.00	001
Brick	91.38	.003
Coal	640.27	.023
Disinfectant	27.50	.001
Freight and car service	25.60	.001
Gasoline	32.00	.001
Grain	4,003.74	.141
Hay	675.03	.024
Harness repairs	209.50	.007
Insurance	125.25	.004
Iron castings	3.55	.001
Land purchase	5,000.00	.175
Labor and material	1,876.60	.066
Lights	327.46	.011
Lubricants	112.86	.004
Oil	33.05	.001
New equipment	339.63	.012
Pay-roll	11,279.13	.396
Rent of city farm	1,020.00	.036
Supplies	1,726.29	.061
Team hire	324.00	.011
Tools	171.11	.006
Veterinary services and medicine	346.69	.012
Water	61.20	.002
Total expenditures	28,481.84	
Appropriation	.....	$20,000.00
Credits	.....	6,890.17
Overdraft	.....	1,591.67
	$28,481.84	$28,481.84

APPROPRIATION FOR CITY YARD.

Financial Statement.

For	To	Cr.	Dr.	By	For
Payment on real estate	Amoskeag Mfg. Co.	$5,000.00	$5,500.00	Common Council	City yard.
Pay-roll	Division No. 2	152.21			
Salary of Inspector	George B. True	477.36			
Supplies	John B. Varick Co.	7.84			
		$5,637.41	$5,500.00		
			137.41	Common Council	Overdraft.
		$5,637.41	$5,637.41		

APPROPRIATION FOR CITY YARD.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Payment on real estate	$5,000.00	.886
Pay-roll	152.21	.027
Salary of Inspector	477.36	.085
Supplies	7.84	.002
Total expenditures	$5,637.41	
Appropriation	.....	$5,500.00
Overdraft	.....	137.41
	$5,637.41	$5,637.41

APPROPRIATION FOR GRADING FOR CONCRETE.

Financial Statement.

For	To	Cr.		Dr.		By	For.
Curbing and corner curbing	Chas. A. Bailey		$2,202.62	$2.00		W. P. Straw	Apples.
Pay-roll	Division No. 2	$6,618.13			$2.00	Bisson & Jodoin	Broken stone.
	7	378.17			1.00	John Copeland	
	10	2,833.59			3.16	Daniels-Cornell Co.	
			9,829.89		6.54	W. G. Everett	
Switching service	Boston & Maine R. R.		1.00		73.87	Fenton & Charnley	
Tools	John B. Varick Co.		9.49		4.20	Griffin & Duguay	
					2.00	O. H. Johnson	
					7.33	F. Jutras	
					319.37	F. T. Ley Co.	
					58.03	The J. H. Mendell Co.	
					26.12	Chas. F. Nettleton	
					.88	N. E. T. & T. Co.	
					6.00	N. Normand & Son	
					100.00	J. E. Normandeau	
					32.31	People's Gas Light Co.	
					578.80	Pine Grove Cemetery	
					5.57	D. M. Poore Coal Co.	
					11.20	Frank Tetu	
				1,238.38			
				5.00		W. H. Griffin Co.	Chopping blocks.
				3.50		A. H. Sanborn	Hitching post.
					$8.40	Hooksett, N. H., Town of	Iron castings.
					220.50	Manchester Street Railway.	
				228.90			
					$5.13	Frank W. Bond	Labor and material.
					1.05	J. H. Bond	
					1.14	Mrs. Helen Congdon	
					1.69	Jules Deschenes	
					11.29	Hassam Paving Co.	
					.44	F. T. Landrigan	
					168.58	Manchester Street Railway.	
					110.97	Manchester Water Works	
					23.21	N. E. T. & T. Co.	

			3.46	Palmer & Garmon	
			594.68	People's Gas Light Co.	
			3.90	Pike & Heald Co.	
		125.54			
		8.00	.....	Arthur W. Eastman	Lumber (old).
		10.20	.....	Palmer & Garmon	Overpayment.
			$4.70	C. W. Abbott	Sewer pipe.
			17.55	Adams Bros.	
			1.68	Phillip Allison	
			2.24	J. Brown	
			6.16	James F. Cavanaugh	
			6.16	B. Chernewski	
			29.35	Chester, N. H., Town of	
			11.14	Dr. W. F. Corning	
			9.70	H. B. Ellis	
			4.40	Independent Oil Co.	
			5.20	J. Labrecque	
			23.50	F. D. Leighton	
			7.38	Robert Matheson	
			.34	Timothy Meara	
			3.80	John Moran	
			7.20	G. D. Rand	
		9.40	.....	E. Rouillard	
			1.12	J. Stearns	
			8.25	John H. Stevens	
			18.89	John B. Varick Co.	
			3.60	Weare, N. H., Town of	
			4.40	J. I. Zing	
		186.16			
		4,500.00	.....	Common Council	Grading for concrete.
	$12,043.00	$7,107.68			
		4,935.32	.....	Common Council	Overdraft.
	$12,043.00	$12,043.00			

APPROPRIATION FOR GRADING FOR CONCRETE—SETTING AND RESETTING EDGESTONE AND CORNER CURBING.

Street.	Location.	Length of circle.	Cost of circle.	Length of Edgestone.	Labor.	Total cost.
Ash, east side	Corner Salmon	15.69	$11.77	$100.5	17.80	$29.57
Bridge	At No. 58 (reset)			56.5	8.60	8.60
Beacon	N. E. corner East High	15.69	11.77		3.16	14.93
Belmont	South from Massabesic	203.97	193.69	145.15	84.23	277.92
Beech, E. S., No. 808	South of Sagamore			50	11.35	11.35
Cedar south back	Chestnut west back	4.71	3.53	45	8.80	12.33
Chester	South side			119	39.70	39.70
Chestnut, W. S	Auburn, N. S			91	10.60	10.60
" E. S	Cedar, S. S., east back, N. S	20.40	11.77	174	26.67	38.44
Carpenter, north side	East from Elm to Chestnut	34.53	14.13	340.8	93.78	107.91
Chestnut and Clarke	Southwest corner	15.69	11.77		2.18	13.95
" "	" " (reset)			29.4	2.12	2.12
" E. S	North from Clarke			165.5	11.57	11.57
Calef road	Baker southerly	29.24	36.02	10	4.98	41.00
Dearborn	Residence of E. E. Reed			40	8.82	8.82
Elm	Corner of Clarke (reset)	11.41			6.60	6.60
" east side	Clarke, southerly	37.68	28.26	50.25	22.37	50.63
" west side	Mechanic, south side	23.35	17.66	127.2	30.49	48.15
" "	Pennacook, north side	37.68	28.26	241	40.59	68.85
East High, S. S	East and west from Hall	31.38	23.54	104.7	26.68	50.22
"	Nashua to Jane (reset)	31.38		310.75	71.40	71.40
Grove	Elm to railroad	14.13	10.60	171	31.43	42.03
Hanover, N. S	Beacon, E. S. (reset)	25.11		172	35.41	35.41
Hayward	Maple, easterly	62.76	47.08	513	104.16	151.24
Hall Road	Corner Wilson			91.8	8.98	8.98
Laurel at No. 61				24.6	2.16	2.16
Lake ave	At engine house			22	12.75	12.75
Myrtle	Corner of Linden	15.69	11.77		4.10	15.87
Massabesic	Corner of Hall (reset)	7.75		2.25	3.48	3.48
Monroe, south side	Cressey lane, W. S. (reset)	15.69		75.1	11.04	11.04
Merrimack, S. S	East from Maple			91.4	4.76	4.76
Maple	Corner of Auburn	31.38	23.54		8.06	31.60
"	Valley to Shasta	251.04	188.29	20	92.14	280.43
North Chestnut	Chas. C. Hayes' residence			70	5.16	5.16
Orange	At No. 134			71	12.93	12.93

Orange	Corner of Clarke			37	7.14	7.14
Old Bridge, N. S.	Belmont, E. S.	15.69	11.77	130	10.92	22.69
Pine and Green	Pine, E. S., Green, S. S.	21.97	16.48	168.6	9.32	25.80
Pine	Lowell to Seneca lane	21.97	16.48	155.5	57.91	74.39
Spruce, S. S.	Beech to Maple	31.38	23.54	40	35.02	58.56
Union	Lowell to Seneca lane	20.40	15.30	13	21.87	37.17
"	" southerly			149.75	16.39	16.39
" E. S.	Valley, north side	20.40	15.30	200.9	21.03	36.33
"	Green to Summer	67.47	50.60	55.69	23.53	74.13
Walnut, W. S.	North from Lowell			75	8.00	8.00
"	Brook to North	251.04	188.38	469.16	108.97	297.35
Willow, easterly	Hayward to Shasta	164.74	123.55	122.50	91.60	215.15
Shasta	Maple to Willow	156.90	117.67		54.76	172.43
Elm	Prospect, northerly	37.26	28.26	384.40	92.19	120.45
Kelley	Notre Dame ave. to Morgan	815.91	609.85	1,330	235.78	845.63
Amherst	Corner of Porter	15.69	11.77	12	8.61	20.38
Union, W. S.	Corner of Concord	18.84	13.14	148.7	21.07	34.21
" E. S.	Merrimack, N. S.			322	7.49	7.49
		2,596.01	$1,915.54	7,331.67	$1,700.65	$3,616.19

APPROPRIATION FOR GRADING FOR CONCRETE—GUTTER PAVED AND REPAVED.

STREET.	LOCATION.	Length.	Width.	Square yards paved.	Material.	Labor.	Total cost.
Ash, E. S.	Corner of Salmon			50.16	$3.00	$17.80	$20.80
Belmont, south	From Massabesic (repaved)			703.91	61.50	320.65	382.15
Bridge, No. 58	(Repaved)			12.5		4.30	4.30
Belmont	Grove to railroad			212.3	5.55	90 36	95.91
Chester	South side			1	2.00	4.10	6.10
"	" "			1	1.00	4.44	5.44
Chestnut, E. S	Cedar, S. S., east back, N. S			30.8		11.70	11.70
Carpenter, S. S	East from Elm to Chestnut			269.6	25.50	59.92	85.42
Concord	Opposite Pine				1.10	4.50	5.60
Chestnut, E. S	North from Clarke			27.5		6.39	6.39
Calef road	Baker, southerly			547.2	68.00	228 13	296.13
East side Park	East Manchester			89	7 50	13.94	21.44
Elm, east side	South from Clarke			103.6	11.50	99.31	110.81
" west side	Mechanic, south side			193.19	23.29	59.40	82.69
" "	Pennacook, N. S			71.66	6.60	21.06	27 66
East High	Corner of Hall			5.5	2.00	6.68	8.68
"	Nashua to Jane (repaved)			47.3		58.82	58.82
Elm	North of Pearl			2	5.94	3.00	8 94
Hayward	Maple, easterly			348 8	44.00	155.35	199.35
Hanover	Beech to Maple			401	52.80	175.00	227.80
Hall road	Corner of Wilson			31.3	3.50	8.74	12.24
Kelley	Notre Dame avenue to Morgan			1,427.6	178.50	792.63	971.13
Laurel, at No. 61				3		.72	.72
Massabesic and Hall	(Repaved)			2.6		2.00	2.00
" "				24	3.00	22.30	25.30
Maple	Valley to Shasta			2,322.40	290.00	401.41	691.41
Nashua, at No. 100	Near Arlington			3.3	.17	1.85	2.02
Orange, corner	Clark avenue (repaved)			1		.50	.50
Old Bridge	Belmont, N. E. corner			49.6	4.75	13.26	18.01
Orange, at No. 134				12.7	.33	1.46	1 79
Pearl, N. E.	Corner of Linden (repaved)			1		6.82	6.82
Pine	Pine, E. S., Green, S. S			18 3	1 40	15.38	16.78
Shasta	Maple to Willow			730	91.00	78.52	169.52

Silver	Maple to Lincoln			327.5	41.00	54.42	95.42
Spruce, S. S.	Beech to Maple			400	54.50	80.16	134.66
Union, E. S.	Valley, north side			64.95	6.00	18 34	24.34
"	Green to Summer			233.75	33.00	52.99	85.99
"	Corner of Concord (repaved)			17		1.94	8.40
"	Merrimack, N. S. (repaved)			78.3		5.51	5.51
Valley, N. S.	West from Union			16.6	2.50	4.97	7.47
Webster	Opposite Ray (repaved)			2.7		2.34	2.34
Walnut, W. S.	North from Lowell (repaved)			25		1.56	1.56
Willow, easterly	Hayward to Shasta			1 240.95	155.00	149.49	304.49
Walnut	Brook to North			185.64	23.00	251.95	274.95
				10,327.67	$1,208.93	$3,314.11	$4,529.50

APPROPRIATION FOR GRADING FOR CONCRETE.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Curbing and corner curbing	$2,202.62	.1829
Pay-roll	9,829.89	.8162
Switching service	1.00	.0001
Tools	9.49	.0008
Total expenditures	$12,043.00	
Appropriation	.....	$4,500.00
Credits	.....	2,607.68
Overdraft	.....	4,935.32
	$12,043.00	$12,043.00

APPROPRIATION FOR MACADAMIZING AND NEW HIGHWAYS.

Financial Statement.

For	To	Cr.		Dr.	By	For
Brick	W. F. Head & Son		$1,302.03	$20.00	Manchester Street Ry.	Car service.
Broken stone	Charles A. Bailey	$100.54				
	Essex Trap Rock & Con. Co.	12,773.26				
	Mass. Broken Stone Co.	14,939.44				
	Waltham Trap Rock Co.	14,316.92				
			42,130.16			
Car and switching service, and storage	Boston & Maine R. R.		832.25			
Cement	Henry W. Parker		495.00			
Claims	Harrry G. Clough		25.00			
Coal	L. B. Bodwell		1,089.92			
Curbing and corner curbing	Charles A. Bailey	$2,294.22				
	Palmer & Garmon	350.61				
			2,644.83			
Engineering	Frank A. Gay		28.50			
Freight	Boston & Maine R. R.		219.47			
Gasoline	Red Arrow Garage	$65.00				
	Standard Oil Co.	116.05				
			181.05			
Grade stakes	West Side Lumber Co.		182.49			
Insurance	William G. Berry	$255.15				
	John A. Sheehan	111.60				
			366.75			
Iron castings	Concord Foundry & Mach. Co.		133.20			
Labor and material.	Drew Machinery Agency	$2.50				
	Manchester Auto Garage	31.50				
	Manchester Machine Works	14.39				
	M. T., L. & P. Co.	14.58				
	Ranno Saddlery Co.	12.00				
			74.97			
Lubricants	Vacuum Oil Co.		183.59			

APPROPRIATION FOR MACADAMIZING AND NEW HIGHWAYS.—*Concluded.*

FINANCIAL STATEMENT.

For	To	Cr.		Dr.	By	For
New equipment.....	Charles A. Bailey.....	.....	$995.00			
Oil	Standard Oil Co.....	.....	111.12			
Pay-roll	Division No. 2.....	$29,124.28				
	7.....	11,319.98				
	10.....	9,362.10				
			49,806.36			
State Aid contract...	James F. Cavanaugh.....	$2,000.00				
	James F. Cavanaugh.....	1,500.00				
	James F. Cavanaugh.....	5,000.00				
	James F. Cavanaugh.....	2,000.00				
	James F. Cavanaugh.....	5,949.49				
			16,449.49			
Supplies	Amoskeag Mfg. Co.....	$15.00				
	Buffalo Steam Roller Co...	46.50				
	Dyar Supply Co.....	94.50				
	James W. Hill Co.....	1.25				
	Henry W. Parker.....	7.50				
	Pike & Heald Co.....	22.04				
	B. H. Piper Co.....	34.00				
	John B. Varick Co.....	577.88				
			798.67			
			$118,049.85	$110,932.44		
				7,117.41	Common Council.....	Overdraft.
			$118,049.85	$118,049.85		

Macadamizing (water bound) done as per following schedule:

Included in this work is corner curbing, new and repaired catch-basins, paving gutters, and all incidental items necessary in first-class work.

Baker street, Elm street to Calef road	470 feet
Belmont street, Massabesic street to B. & M. Railroad	1,550
Calef road, Baker street southerly	800
Elm street, Valley street to dry bridge	720
Elm street, Baker street southerly	590
Hanover street, Beacon street to Lake avenue	3,790
Hanover street, Beech street to Maple street	600
Harvard street, Wilson street to Hall street	460
Hayward street, Elm street to Willow street	270
Hayward street, Maple street to Lincoln street	601
High, East, street, Nashua street to Jane street	350
Kelley street, Coolidge avenue to Morgan street	3,400
Lincoln street, Hanover street to Amherst street	270
Lincoln street, Hayward street southerly	40
Lowell street, Ash street to Maple street	330
Maple street, Lowell street to Nashua street	40
Maple street, Auburn street to Shasta street	4,058
McGregor street, Main street to West Bridge street	1,340
McGregor street, West Bridge street northerly	160
Nashua street, Lowell street to Maple street	130
Porter avenue, Amherst street to Concord street	410
Second street, Granite street to North Weare Railroad	1,650
Shasta street, Willow street to Maple street	1,400
Silver street, Maple street to Lincoln street	550
Spruce street, Beech street to Maple street	590
Union street, Auburn south back street to Green street	370
Union street, Shasta street to Willow street	75
Walnut street, Brook street to Salmon street	1,210
Wayne street, Main street to McGregor street	200
Willow street, Hayward street to south of Baker street	2,400
Wilson street, Valley street to Somerville street	1,775
	30,599 feet
Hanover street, Beacon street to Lake avenue (deducted)	3,790
Total length exclusive of Hanover street	26,809 feet
30,599 feet equals	5.79 miles
3,790 feet equals	.72
26,809 feet equals	5.08
The Hanover street job cost in total	$36,532.81

The state paid	$6,088.80	
The city did work in 1910 amounting to	2,614.95	
		$8,703.75
		$27,829.06
Total expenditures		$118,049.85
Deducting amount expended on Hanover street in 1912		27,829.06
Balance for all work excepting Hanover street		$90,220.79

The Hanover street job is 3,790 feet long and 40 feet wide and cost at the rate of $50,371 per mile 40 feet wide, or at the rate of $37,778 per mile 30 feet wide. There were many difficulties encountered in building this road, such as much ledge to be removed retaining wall to build, and fill to make. This job is mentioned, it having been done by contract in conjunction with the state.

First-class top dressing jobs were done as follows:

Amherst street, Maple street to Beech street	600 feet
Amory street, Main street to McGregor street	450
Beech street, Hanover street to Lake avenue	1,260
Bridge street, Chestnut street westerly	200
Chestnut street, Sagamore street to Salmon street	370
Hall street, Manchester street to Central street	800
Nashua street, Concord street to Arlington street	900
Turner street, Granite street to Walker street	1,400
Wilson street, Valley street to Spruce street	1,840
	7,820 feet

Gravelling and building jobs were done as follows:

Ashland street, Hanover street to Bridge street	1,600 feet
Blodget street, Union street to Walnut street	220
Carpenter street, Elm street to Chestnut street	570
Chestnut street, Webster street to Carpenter street	2,400
Clarke street, Union street westerly	1,350
Everett street, Clarke street to Thayer street	400
Grove street, Belmont street to Wilson street	450
Maple street, Hanover street to Concord street	600
Union street, North street to Webster street	600
Webster street, Chestnut street to Hooksett road	1,450
	9,640 feet
7,820 feet equals	1.48 miles
9,640 feet equals	1.82

SUMMARY.

Hanover street job	$27,829.06
Produced about 3,500 tons broken stone (granite) at Wilson Hill crusher	3,422.91

Built 5 miles first-class macadam (average 30 feet wide); top-dressed 1.5 miles with trap rock, built, gravelled and graded 1.8 miles, and miscellaneous work	$86,797.88
	$118,049.85
Under this appropriation the board handled 1,248 cars of broken stone amounting to 32,588 long tons, costing	$45,182.55
The pay-roll amounted to	49,806.36
	$94,988.91

APPROPRIATION FOR MACADAMIZING AND NEW HIGHWAYS.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Brick	$1,302.03	.01103
Broken stone	42,130.16	.35669
Car and switching service and storage	832.25	.00706
Cement	495.00	.00419
Claims	25.00	.00022
Coal	1,089.92	.00924
Curbing and corner curbing	2,644.83	.02242
Engineering	28.50	.00026
Freight	219.47	.00187
Gasoline	181.05	.00154
Grade stakes	182.49	.00156
Insurance	366.75	.00316
Iron castings	133.20	.00114
Labor and material	74.97	.00064
Lubricants	183.59	.00156
New equipment	995.00	.00844
Oil	111.12	.00094
Pay-roll	49,806.36	.42192
State Aid contract	16,449.49	.13935
Supplies	798.67	.00679
Total expenditures	$118,049.85	
Appropriation	.....	$106,145.00
Credits	.....	4,787.44
Overdraft	.....	7,117.41
	$118,049.85	$118,049.85

APPROPRIATION FOR PAVING STREETS.

Financial Statement.

For	To	Cr.		Dr.	By	For
Cement	Henry W. Parker		$1,740.00	$6.00	Manchester Street Ry.	Car service.
Claims	E. H. Houtz		20.00	10,643.50	Manchester Street Ry.	Paving blocks.
Curbing	Chas. A. Bailey		194.34	20,000.00	Common Council	Paving streets.
Freight and car service	Boston & Maine R. R.		40.27			
Iron castings	Concord Foundry & Machine Co.		61.65			
Labor and material.	Champagne & Charnley	$7.90				
	Manchester Machine Works	2.18				
			10.08			
Paving blocks	Chas. A. Bailey	$11,837.75				
	Palmer & Garmon	5,509.63				
			17.347.38			
Paving (contract)	Connelly & Diamond	$97.37				
	Hanson Construction Co.	712.80				
			810.17			
Paving (tar concrete)	Robie Cons. Concrete Co.		2,219.90			
Paving (pitch)	Barrett Mfg. Co.		36.98			
Pay-roll	Division No. 2	$5,018.17				
	7	334.56				
	10	4,619.49				
			9,972.22			
Repairs to equipment	Bunton & Bernard	$6.25				
	Dyar Supply Co.	23.12				
			29.37			
Supplies	F. A. Angier	$6.35				
	Geo. W. Dodge Shoe Co.	4.00				
	The Hohman & Maurer Mfg. Co.	3.00				
	Pike & Heald Co.	21.22				
	Sherburne & Co.	37.75				
	John B. Varick Co.	28.07				

Supplies	West Side Lumber Co.....	6.37				
			106.76			
			$32,689.12	$30,649.60 2,039.62	Common Council.....	Overdraft.
			$32,689.12	$32,689.12		

APPROPRIATION FOR PAVING STREETS.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Cement	$1,740.00	.0532
Claims	20.00	.0006
Curbing	194.34	0060
Freight and car service	140.27	.0043
Iron castings	61.65	.0019
Labor and material	10.08	.0003
Paving blocks	17,347.38	.5307
Paving (contracts)	810.17	.0248
Paving (tar concrete)	2,219.90	.0679
Paving pitch	36.98	.0011
Pay-roll	9,972.22	.3051
Repairs to equipment	29.37	.0009
Supplies	106.76	.0032
Total expenditures	$32,689.12	
Appropriation	.....	$20,000.00
Credits	.....	10,649.50
Overdraft	.....	2,039.62
	$32,689.12	$32,689.12

APPROPRIATION FOR REPAIRS OF HIGHWAYS.

Financial Statement.

For	To	Cr.		Dr.	By	For
Auto registration....	Edward N. Pearson.....	.....	$10.00	$30,000.00	Common Council.....	Repairs of highways.
Broken stone.....	Essex Trap Rock & Con. Co.	$233.37				
	Mass. Broken Stone Co.....	591.26				
			824.63			
Freight	Boston & Maine R. R.....	.....	19.94			
Iron castings.....	Concord Foundry & Mach. Co.	.....	12.00			
Labor	The S. P. Dodge Co.....	$10.35				
	Jere Hodge	1.22				
	M. T., L. & P. Co.....	32.12				
			43.69			
New equipment.....	A. B. Black Road Mach. Co.	$256.88				
	Good Roads Machinery Co.	22.00				
	William C. Spear.....	2,107.50				
			2,386.38			
Paving (tar concrete)	Robie Cons. Concrete Co...	.....	12.44			
Pay-roll	Division No. 2.....	$10,574.21				
	4.....	345.50				
	5.....	633.05				
	7.....	2,489.58				
	9.....	1,690.30				
	10.....	8,381.30				
			24,113.94			
Repairs to equipment	A. B. Black Road Mach. Co.	$70.87				
	Drew Machinery Agency...	2.00				
	Manchester Machine Works	14.60				
	M. T., L. & P. Co.....	.85				
			88.32			
Sand	James Lervey.....	$10.00				
	Albert N. Nettle.....	7.50				
	Milton C. Paige.....	92.80				
			110.30			
Supplies	Jere Hodge	$3.19				
	M. T., L. & P. Co.....	12.00				
	Henry W. Parker.....	9.45				
	Pike & Heald Co.....	15.77				

APPROPRIATION FOR REPAIRS OF HIGHWAYS.—*Concluded.*

Financial Statement.

For	To	Cr.		Dr.	By	For
Supplies	John B. Varick Co.	$448.28				
	West Side Lumber Co.	17.02				
			$505.71			
Water	Water Commissioners		30.00			
			$28,157.35	$30,000.00		
Balance	Common Council		1,842.65			
			$30,000.00	$30,000.00		

APPROPRIATION FOR REPAIRS OF HIGHWAYS.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Auto registration	$10.00	.0003
Broken stone	824.63	.0292
Freight	19.94	.0007
Iron castings	12.00	.0004
Labor	43.69	.0015
New equipment	2,386.38	.0847
Paving (tar concrete)	12.44	.0004
Pay-roll	24,113.94	.8563
Repairs to equipment	88.32	.0031
Sand	110.30	.0039
Supplies	505.71	.0179
Water	30.00	.0016
Total expenditures	$28,157.35	
Appropriation	.....	$30,000.00
Balance	1,842.65	
	$30,000.00	$30,000.00

APPROPRIATION FOR WATERING STREETS.

Financial Statement.

For	To	Cr.		Dr.	By	For
Claim	Sacred Heart Hospital	.....	$10.00	$10.00	J. A. Colby	Old sprinkler tanks.
Freight and car service	Boston & Maine R. R.	.....	85.19	12,000.00	Common Council	Watering streets.
Ice	Manchester Coal & Ice Co.	$55.00				
	Maxwell Ice Co.	55.00				
	Standard Ice Co.	55.00				
			165.00			
Labor and material.	Amoskeag Mfg. Co.	$122.47				
	Alex Champagne	3.00				
	C. F. McDonald	8.86				
	C. L. Wolf	5.20				
			139.53			
New equipment	Chandler-Eastman Co.	.....	900.00			
Pay-roll	Division No. 2	$4,290.34				
	7	702.66				
	10	1,488.87				
			6,481.87			
Repairs to equipment	The S. P. Dodge Co.	$5.75				
	Chandler-Eastman Co.	59.92				
	J. B. McCrillis & Son	5.00				
	Joseph Palmer	43.40				
			114.07			
Road oil	The Barber Asphalt Paving Co.	$794.25				
	Standard Oil Co.	3,939.08				
			4,733.33			
Road oil (Application contract)	The American Car Sprinkler Co.	.....	1,736.71			
Supplies	Pike & Heald Co.	$48.14				
	Standard Oil Co.	6.50				
	John B. Varick Co.	7.04				
			61.68			
				$12,010.00		
			$14,427.38			
				2,417.38	Common Council	Overdraft.
			$14,427.38	$14,427.38		

APPROPRIATION FOR WATERING STREETS.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Claims	$10.00	.0007
Freight and car service	85.19	.0059
Ice	165.00	.0114
Labor and material	139.53	.0096
New equipment	900.00	.0624
Pay-roll	6,481.87	.4493
Repairs to equipment	114.07	.0079
Road oil	4,733.33	.3281
Road oil (Application contract)	1,736.71	.1204
Supplies	61.68	.0043
Total expenditures	$14,427.38	
Appropriation	.....	$12,000.00
Credits	.....	10.00
Overdraft	.....	2,417.38
	$14,427.38	$14,427.38

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 2—Route No. 1.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe
1	1,150	.....	.....	Elm	Salmon to Webster	Elm and West Salmon.
	.....	1,250	.....	Elm, east side	Webster to Clarke	Clarke and Elm.
2	.....	1,550	.....	Elm, east side	Clarke to south of Trenton	Elm, south of Trenton.
3	.....	1,550	.....	Elm, west side	South of Trenton to Clarke	Clarke and Elm.
4	.....	1,250	.....	Elm, west side	Clarke to Webster	
	.....	600	.....	Webster	Elm to Chestnut	Chestnut and Webster.
5	.....	1,400	.....	Webster	Chestnut to Beech	Beech and Webster.
6	550	.....	.....	Webster	Beech to Union	
	.....	1,200	.....	Union	Webster to Clarke	Clarke and Webster.
7	.....	1,200	.....	Union	Clarke to Carpenter	Carpenter and Clarke.
8	.....	1,400	.....	Carpenter	Union to Elm	
	.....	.....	350	Elm	Carpenter to south of Trenton	Elm, south of Trenton.
9	200	.....	.....	Elm	South of Trenton to Trenton	
	.....	600	.....	Trenton	Elm to Chestnut	
	.....	1,700	.....	Chestnut	Trenton to Clarke	
	.....	.....	600	Clarke	Chestnut to Elm	Clarke and Elm.
10	.....	800	.....	Clarke	Elm to Adams	
	200	.....	.....	Clarke	Adams to Chestnut	
	.....	1,200	.....	Chestnut	Clarke to Webster	Chestnut and Webster.
11	250	.....	.....	Webster	Chestnut to North Adams	
	.....	1,550	.....	North Adams	Webster to north of Clarke	
	300	.....	.....	North Adams	North of Clarke to Clarke	
	.....	500	.....	Clarke	North Adams to Union	Clarke and Union.
12	250	.....	.....	Clarke	Union to Ray	
	.....	1,200	.....	Ray	Clarke to Webster	
	250	.....	.....	Webster	Ray to Union	
	300	.....	.....	Union	Webster to Appleton	
	.....	1,400	.....	Appleton	Union to Elm	
	.....	.....	600	Appleton	Elm to Chestnut	
	.....	.....	300	Chestnut	Appleton to Webster	Chestnut and Webster.
13	600	.....	.....	Webster	Chestnut to Elm	

	.....	650	.....	West Webster	Elm to River road	
	.....	1,300	.....	River road	West Webster to West Clarke	
	.....	.....	500	West Clarke	River road to Elm	Clarke and Elm.
14	.....	500	.....	West Clarke	Elm to River road	
	200	.....	.....	West Clarke	River road to Everett	
	.....	350	.....	Everett	West Clarke to Waldo	
	.....	200	.....	Waldo	Everett to Elm	
	.....	350	.....	Elm	Waldo to Clarke	Clarke and Elm.
15	300	.....	.....	Clarke	Elm to Bay	
	.....	1,200	.....	Bay	Clarke to Carpenter	
	.....	300	.....	Carpenter	Bay to Elm	
16	.....	1,100	.....	Elm	Carpenter to south of Trenton	Elm, south of Trenton.
	.....	250	.....	Rowell	Elm to River road	
	.....	.....	350	Elm	South of Trenton to Rowell	
	.....	1,400	.....	River road	Rowell to Readey	
	.....	.....	350	Readey	River road to Elm	
	.....	.....	350	Elm	Readey to south of Trenton	Elm, south of Trenton.
17	350	.....	.....	Elm	South of Trenton to Readey	
	350	.....	.....	Readey	Elm to River road	
	.....	1,300	.....	River road	Readey to West Clarke	
	.....	.....	500	West Clarke	River road to Elm	Clarke and Elm.
	.....	700	.....	Elm	Clarke to Monroe	
	.....	550	.....	Monroe	Elm to River road	
	550	.....	.....	Monroe	River road to Elm	
	.....	250	.....	Elm	Monroe to West Appleton	
	.....	250	.....	West Appleton	Elm, westerly	
	250	.....	.....	West Appleton	West of Elm to Elm	
	.....	250	.....	Elm	West Appleton to West Webster	
	.....	600	.....	Webster	Elm to Chestnut	
	6,050	31,850	3,900			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 2—Route No. 2.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	950	.....	Elm, east side.....	Prospect to Blodget.....	Elm and Prospect.
	.....	.....	.....	.....	.....	Blodget and Elm.
2	.....	950	.....	Elm, east side.....	Blodget to Salmon.....	Elm and Salmon.
3	.....	1,100	.....	Elm, east side.....	Salmon to Webster.....	
	.....	.....	600	Webster	Elm to Chestnut.....	Chestnut and Webster.
4	600	.....	.....	Webster	Chestnut to Elm.....	
	.....	1,100	.....	Elm, west side.....	Webster to Salmon.....	Elm and Salmon.
5	.....	900	.....	West Salmon.....	Elm to Amoskeag bridge.....	
	.....	900	.....	West Salmon.....	Amoskeag bridge to Elm.....	Elm and Salmon.
6	.....	950	.....	Elm, west side.....	Salmon to Blodget.....	Blodget and Salmon.
7	.....	950	.....	Elm, west side.....	Blodget to Prospect.....	Elm and Prospect.
8	600	.....	.....	Prospect	Elm to Chestnut.....	
	.....	1,900	.....	Chestnut	Prospect to Salmon.....	
	.....	.....	300	Salmon	Chestnut to Pine.....	Pine and Salmon.
9	.....	1,150	.....	Pine	Salmon to Webster.....	
	300	.....	.....	Webster	Pine to Chestnut.....	
	.....	1,150	.....	Chestnut	Webster to Salmon.....	
	.....	.....	300	Salmon	Chestnut to Pine.....	Pine and Salmon.
10	.....	1,900	.....	Pine	Salmon to Prospect	
	450	.....	.....	Prospect	Pine to Union	
	.....	650	.....	Union	Prospect to Brook.....	
	.....	.....	100	Brook	Union to Union east back.....	
	.....	.....	150	Union east back.....	Brook to standpipe.....	Union east back, between Brook and Blodget.....
11	150	.....	.....	Union east back.....	Standpipe to Brook.....	
	100	.....	.....	Brook	Union east back to Union.....	
	.....	2,350	.....	Union	Brook to Webster.....	
	.....	.....	550	Webster	Union to Beech.....	Beech and Webster.
12	650	.....	.....	Beech	Webster to North.....	
	.....	1,950	.....	North	Beech to Elm.....	
	500	.....	.....	Elm	North to Salmon.....	

	.....	900	.....	Salmon	Elm to Pine	Pine and Salmon
13	.....	1,000	.....	Salmon	Pine to Beech	
	350	.....	.....	Beech	Salmon to Sagamore	
	.....	1,000	.....	Sagamore	Beech to Pine	
	.....	.....	350	Pine	Sagamore to Salmon	
14	350	.....	.....	Pine	Salmon to Sagamore	
	.....	900	.....	Sagamore	Pine to Elm	
	250	.....	.....	Elm	Sagamore to Pennacook	
	.....	1,400	.....	Pennacook	Pine to Union	
	.....	.....	200	Union	Pennacook to Blodget	
	.....	.....	100	Blodget	Union to Union east back	
	.....	.....	150	Union east back	Blodget to standpipe	Union east back, between Blodget and Brook.
15	150	.....	.....	Union east back	Standpipe to Brook	
	350	.....	.....	Brook	Union east back to Beech	
	300	.....	.....	Beech	Brook to Blodget	
	.....	1,950	.....	Blodget	Beech to Elm	Blodget and Elm.
16	250	.....	.....	Elm	Blodget to Brook	
	.....	1,950	.....	Brook	Elm to Beech	
	250	.....	.....	Brook	Beech to Walnut	
	.....	650	.....	Walnut	Brook to Prospect	
	.....	.....	250	Walnut	Prospect to Harrison	Harrison and Walnut.
17	250	.....	.....	Harrison	Walnut to Beech	
	.....	1,950	.....	Harrison	Beech to Elm	
	.....	.....	250	Elm	Harrison to Prospect	Elm and Prospect.
18	.....	1,900	.....	Elm, east side	Prospect to Salmon	Elm and Salmon.
19	.....	1,100	.....	Elm, east side	Salmon to Webster	
	.....	1,100	.....	Elm, west side	Webster to Salmon	Elm and Salmon.
20	.....	1,900	.....	Elm, west side	Salmon to Prospect	
	6,050	36,550	3,300			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 2—Route No. 2. P. M.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe
1	.....	1,900	.....	Elm, east side.....	Prospect to Salmon.....	Elm and Prospect.
	.....	.....	.....	.....	.....	Elm and Salmon.
2	.....	1,100	.....	Elm, east side.....	Salmon to Webster.....	
	.....	1,100	.....	Elm, west side.....	Webster to Salmon.....	Elm and Salmon.
3	.....	1,900	.....	Elm, west side.....	Salmon to Prospect.....	Elm and Prospect.
4	600	.....	.....	Prospect	Elm to Chestnut.....	
	.....	1,900	.....	Chestnut	Prospect to Salmon.....	
	.....	.....	300	Salmon	Chestnut to Pine.....	Pine and Salmon.
5	.....	1,150	.....	Pine	Salmon to Webster.....	
	300	.....	.....	Webster	Pine to Chestnut.....	
	.....	1,150	.....	Chestnut	Webster to Salmon.....	
	.....	.....	300	Salmon	Chestnut to Pine.....	Pine and Salmon.
6	500	.....	.....	Pine	Salmon to North.....	
	200	.....	.....	North	Pine to Liberty.....	
	.....	600	.....	Liberty	North to Webster.....	
	900	.....	.....	Webster	Liberty to Bay.....	
	.....	1,550	.....	Bay	Webster to Sagamore.....	
	.....	.....	400	Bay	Sagamore to Salmon.....	
	.....	.....	600	Salmon	Bay to Pine.....	Pine and Salmon.
7	.....	1,900	.....	Pine	Salmon to Prospect.....	
	450	.....	.....	Prospect	Pine to Union.....	
	.....	400	.....	Union	Prospect to Brook.....	
	.....	.....	100	Brook	Union to Union east back.....	
	.....	.....	150	Union east back.....	Brook to standpipe.....	Union east back, between Brook and Blodget.
8	150	....	.....	Union east back.....	Standpipe to Brook.....	
	100	.....	.....	Brook	Union east back to Union.....	
	.....	2,350	.....	Union	Brook to Webster.....	
	.....	.....	500	Webster	Union to Beech.....	Beech and Webster.
9	250	.....	.....	Webster	Beech to Walnut.....	
	.....	2,050	.....	Walnut	Webster to Blodget.....	

	.....	.....	100	Blodget	Walnut to Union east back.....	
	.....	.....	150	Union east back.....	Blodget to standpipe.....	Union east back, between Blodget and Brook.
10	150	.....	.....	Union east back.....	Standpipe to Blodget.....	
	100	.....	.....	Blodget	Union east back to Walnut.....	
	.....	1,000	.....	Walnut	Blodget to Prospect.....	
	.....	.....	250	Walnut	Prospect to Harrison.....	Harrison and Walnut.
11	250	.....	.....	Harrison	Walnut to Beech.....	
	.....	1,950	.....	Harrison	Beech to Elm.....	
	3,950	22,000	2,850			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Route No. 3.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	1,900	.....	Beech	Grove to Central	Grove, west of Beech.
	.....	.....	1,350	Beech	Central to Amherst	
	.....	.....	500	Amherst	Beech to Union	Amherst, east of Union.
2	500	.....	.....	Amherst	Union to Beech	
	.....	1,350	.....	Amherst	Beech to Chestnut	
	.....	.....	300	Amherst	Chestnut to Vine	Amherst and Vine.
3	300	.....	.....	Amherst	Vine to Chestnut	
	.....	2,300	.....	Chestnut	Amherst to Prospect	
	.....	.....	600	Prospect	Chestnut to Elm	Elm and Prospect.
4	.....	1,200	.....	Elm, east side	Prospect to Bridge	
	.....	1,200	.....	Elm, west side	Bridge to Prospect	Elm and Prospect.
5	.....	1,200	.....	Elm, center	Prospect to Bridge	
	.....	1,200	.....	Elm, center	Bridge to Prospect	Elm and Prospect.
6	950	.....	.....	Prospect	Elm to Pine	
	.....	2,350	.....	Pine	Prospect to Amherst	
	.....	.....	500	Amherst	Pine to Union	Amherst, east of Union.
7	.....	1,900	.....	Union	Amherst to Orange	Orange and Union.
8	.....	500	.....	Union	Orange to Prospect	
	.....	300	.....	Prospect	Union to Walnut	
	.....	300	.....	Walnut	Prospect to Harrison	Harrison and Walnut.
9	300	.....	.....	Walnut	Harrison to Prospect	
	.....	2,400	.....	Walnut	Prospect to Amherst	
	.....	.....	300	Amherst	Walnut to Union	Amherst, east of Union.
10	500	.....	.....	Amherst	Union to Beech	
	350	.....	.....	Beech	Amherst to Concord	
	.....	1,350	.....	Concord	Beech to Chestnut	
	300	.....	.....	Chestnut	Concord to Lowell	
	.....	1,350	.....	Lowell	Chestnut to Beech	
	.....	.....	550	Lowell	Beech to Union	

DIVISION No. 2—ROUTE No. 3—P. M.

	.....	.....	300	Union	Lowell to High	High and Union.
11	.....	850	.....	High	Union to Chestnut	
	250	.....	.....	Chestnut	High to Bridge	
	.....	1,350	.....	Bridge, south side	Chestnut to Beech	
	.....	600	.....	Bridge, north side	Beech to Union	
	.....	.....	250	Union	Bridge to High	High and Union.
12	250	.....	.....	Union	High to Bridge	
	.....	850	.....	Bridge, north side	Union to Chestnut	
	.....	.....	300	Bridge	Chestnut to Birch	
	.....	.....	200	Birch	Bridge to Washington	Birch and Washington.
13	300	.....	.....	Washington	Birch to Elm	
	550	.....	.....	Elm	Washington to Pearl	
	.....	1,450	.....	Pearl	Elm to Union	
	.....	.....	300	Union	Pearl to Orange	
14	300	.....	.....	Union	Orange to Pearl	
	.....	550	.....	Pearl	Union to Beech	
	300	.....	.....	Beech	Pearl to Orange	
	.....	550	.....	Orange	Beech to Union	Orange and Union.
15	.....	1,350	.....	Orange	Union to Elm	
	250	.....	.....	Elm	Orange to Myrtle	
	.....	1,200	.....	Myrtle	Elm, to half way Pine to Union	
	.....	.....	250	Myrtle	Half way Pine to Union to Union	
	.....	.....	200	Union	Myrtle to Orange	Orange and Union.
16	200	.....	.....	Union	Orange to Myrtle	
	250	.....	.....	Myrtle	Union, to half way Union to Pine	
	.....	800	.....	Myrtle	Half way Union to Pine to Beech	
	250	.....	.....	Beech	Myrtle to Prospect	
	.....	250	.....	Prospect	Beech to Walnut	
	.....	.....	250	Walnut	Prospect to Harrison	Harrison and Walnut.
17	250	.....	.....	Walnut	Harrison to Prospect	
	.....	1,700	.....	Prospect	Walnut to Elm	Elm and Prospect.
18	.....	1,200	.....	Elm, east side	Prospect to Bridge	
	.....	1,200	.....	Elm, west side	Bridge to Prospect	
	6,350	34,600	6,150			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 2—Route No. 4.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	550	.....	.....	Orange	Union to Beech	Orange and Union.
	.....	200	.....	Beech	Orange to Sagamore	
	.....	.....	1,550	Beech	Sagamore to Webster	Beech and Webster.
2	.....	1,550	.....	Beech	Webster to Sagamore	
	.....	.....	250	Sagamore	Beech to Ash	
	.....	.....	250	Ash	Sagamore to standpipe	Ash, between Sagamore and Blodget.
3	.....	2,400	.....	Ash	Standpipe to Bridge	
	.....	.....	250	Bridge	Ash to Maple	
	.....	.....	400	Maple	Bridge to East High	
	.....	.....	150	East High	Maple to Nashua	East High and Nashua.
4	150	.....	.....	East High	Nashua to Maple	
	400	.....	.....	Maple	East High to Bridge	
	.....	300	.....	Maple	Bridge to Pearl	
	.....	1,400	.....	Pearl	Maple to Ashland	Ashland and Pearl.
5	.....	950	.....	Pearl	Ashland to Belmont	
	.....	700	.....	Belmont	Pearl to Bridge	
	.....	200	.....	Belmont	Bridge to Old Bridge	
	.....	400	.....	Old Bridge	Belmont to Hall	Bridge and Hall.
6	.....	1,200	.....	Hall	Bridge to Myrtle	
	.....	750	.....	Myrtle	Hall to Linden	Linden and Myrtle.
7	.....	250	.....	Linden	Myrtle to Orange	
	.....	750	.....	Orange	Linden to Belmont	
	.....	250	.....	Belmont	Orange to Myrtle	
	.....	300	.....	Myrtle	Belmont to Hall	
	.....	250	.....	Hall	Myrtle to Prospect	
	.....	750	.....	Prospect	Hall to Linden	
	.....	250	.....	Linden	Prospect to Myrtle	Linden and Myrtle.
8	.....	1,100	.....	Linden	Myrtle to Bridge	
	200	.....	.....	Bridge	Linden to Ashland	
	.....	550	.....	Ashland	Bridge to Pearl	Ashland and Pearl.

9	.....	350	.....	Pearl	Ashland to Morrison	
	.....	350	.....	Morrison	Pearl to Arlington	
	.....	1,700	.....	Arlington	Morrison to Maple	
	.....	.....	550	Maple	Arlington to East High	
	.....	.....	150	East High	Maple to Nashua	East High and Nashua.
10	400	.....	.....	Nashua	East High to Bridge	
	250	.....	.....	Bridge	Nashua to Russell	
	.....	1,050	.....	Russell	Bridge to Myrtle	
	.....	1,050	.....	Myrtle	Russell to Ash	
	250	.....	.....	Ash	Myrtle to Prospect	
	.....	600	.....	Prospect	Ash to Oak	Prospect and Oak.
11	.....	400	.....	Prospect	Oak to Russell	
	.....	250	.....	Russell	Prospect to Harrison	
	.....	400	.....	Harrison	Russell to Linden	
	.....	500	.....	Linden	Harrison to Myrtle	Linden and Myrtle.
12	250	.....	.....	Linden	Myrtle to Orange	
	.....	1,200	.....	Orange	Linden to Oak	
	.....	250	.....	Oak	Myrtle to Prospect	Oak and Prospect.
13	.....	250	.....	Oak	Prospect to Harrison	
	.....	400	.....	Harrison	Oak to Russell	
	.....	750	.....	Russell	Harrison to Blodget	
	450	.....	.....	Blodget	Russell to Oak	
	.....	300	.....	Oak	Blodget to Brook	
	.....	850	.....	Brook	Oak to Beech	
	.....	.....	300	Beech	Brook to Blodget	
	.....	.....	250	Blodget	Beech to Ash	
	.....	.....	200	Ash	Blodget to standpipe	Ash, between Blodget and Sagamore.
14	.....	200	.....	Ash	Standpipe to Blodget	
	.....	250	.....	Blodget	Ash to Maple	
	.....	1,850	.....	Maple	Blodget to Pearl	
	.....	550	.....	Pearl	Maple to Beech	
	2,900	29,800	4,300			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Route No. 4. P. M.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	125	.....	.....	Beech	Standpipe to Pearl	Beech, between Pearl and Orange.
	.....	1,900	.....	Pearl	Beech to Ashland	Ashland and Pearl.
2	.....	950	.....	Pearl	Ashland to Belmont	
	300	.....	.....	Pearl	Belmont to Hall	
	.....	250	.....	Hall	Pearl to Orange	
	.....	750	.....	Orange	Hall to Linden	
	.....	.....	250	Linden	Orange to Myrtle	Linden and Myrtle.
3	250	.....	.....	Linden	Myrtle to Orange	
	.....	1,700	.....	Orange	Linden to Beech	
	250	.....	.....	Beech	Orange to Myrtle	
	.....	850	.....	Myrtle	Beech to Oak	
	.....	.....	250	Oak	Myrtle to Prospect	Oak and Prospect.
4	250	.....	.....	Oak	Prospect to Myrtle	
	.....	1,600	.....	Myrtle	Oak to Hall	
	250	.....	.....	Hall	Myrtle to Prospect	
	.....	700	.....	Prospect	Hall to Linden	
	.....	.....	250	Linden	Prospect to Myrtle	Linden and Myrtle.
5	250	.....	.....	Linden	Myrtle to Prospect	
	.....	850	.....	Prospect	Linden to Oak	Oak and Prospect.
6	.....	850	.....	Prospect	Oak to Beech	
	250	.....	.....	Beech	Prospect to Harrison	
	.....	1,300	.....	Harrison	Beech to Russell	
	.....	.....	450	Harrison	Russell to Oak	
	.....	.....	250	Oak	Harrison to Prospect	Oak and Prospect.
7	250	.....	.....	Oak	Prospect to Harrison	
	300	.....	.....	Harrison	Oak to Maple	
	400	.....	.....	Maple	Harrison to Brook	
	.....	500	.....	Brook	Maple to Beech	
	.....	750	.....	Beech	Brook to Sagamore	
	.....	1,250	.....	Sagamore	Beech to Russell	
	.....	.....	1,000	Sagamore	Russell to Ash	

	.....	.....	250	Ash	Sagamore to standpipe.....	Ash, between Sagamore and Blodget.
8	250	.....	.....	Ash	Standpipe to Sagamore.....	
	.....	2,600	.....	Ash	Sagamore to Bridge.....	
	.....	.....	250	Bridge	Beech to Walnut.....	Bridge and Walnut.
9	750	.....	.....	Bridge	Walnut to Maple.....	
	.....	1,450	.....	Maple	Bridge to Harrison.....	
	3,875	18,250	2,950			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 2—Route No. 5.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	1,500	.....	Bridge	Hall to Nashua	Bridge and Hall.
	.....	.....	400	Nashua	Bridge to East High	East High and Nashua.
2	400	.....	.....	Nashua	East High to Bridge	
	.....	1,000	.....	Bridge	Nashua to Beech	
	.....	.....	500	Bridge	Beech to Maple	
	.....	.....	400	Maple	Bridge to East High	
	.....	.....	150	East High	Maple to Nashua	East High and Nashua.
3	150	.....	.....	East High	Nashua to Maple	
	400	.....	.....	Maple	East High to Bridge	
	500	500	.....	Bridge	Maple to Beech	
	.....	1,650	.....	Beech	Bridge to Hanover	
	.....	.....	300	Beech	Hanover to Amherst	
	.....	.....	450	Amherst	Beech to Union	Amherst and Union.
4	450	.....	.....	Amherst	Union to Beech	
	.....	250	.....	Amherst	Beech to Ash	
	.....	1,350	.....	Ash	Amherst to Bridge	
	.....	.....	250	Bridge	Ash to Maple	
	.....	.....	400	Maple	Bridge to East High	
	.....	.....	150	East High	Maple to Nashua	East High and Nashua.
5	400	.....	.....	Nashua	East High to Bridge	
	.....	1,200	.....	Nashua	Bridge to Concord	
	.....	.....	800	Nashua	Concord to East High	East High and Nashua.
6	150	.....	.....	East High	Nashua to Maple	
	400	.....	.....	Maple	East High to Bridge	
	.....	1,750	.....	Maple	Bridge to Hanover	
	.....	.....	1,100	Hanover	Maple to Ashland	Ashland and Hanover.
7	300	.....	.....	Ashland	Hanover to Amherst	
	.....	1,750	.....	Amherst	Ashland to Beech	
	.....	.....	450	Amherst	Beech to Union	Amherst and Union.
8	450	.....	.....	Amherst	Union to Beech	
	300	.....	.....	Beech	Amherst to Concord	
	.....	1,750	.....	Concord	Beech to Ashland	

	.....	.....	650	Ashland	Concord to Hanover	Ashland and Hanover.
9	.....	1,650	.....	Ashland	Hanover to Bridge	
	.....	.....	550	Bridge	Ashland to Hall	Bridge and Hall.
10	200	.....	.....	Hall	Bridge to East High	
	.....	1,900	.....	East High	Hall to Maple	
	.....	.....	150	East High	Maple to Nashua	East High and Nashua.
11	300	.....	.....	Nashua	East High to Jane	
	.....	700	.....	Jane	Nashua to Lowell	
	.....	400	.....	Lowell	Jane to South	
	.....	350	.....	South	Lowell to East High	
	.....	.....	350	East High	South to Nashua	East High and Nashua.
12	400	.....	.....	Nashua	East High to Bridge	
	200	.....	.....	Bridge	Nashua to Malvern	
	.....	1,050	.....	Malvern	Bridge to Concord	
	200	.....	.....	Concord	Malvern to Derry	
	.....	450	.....	Derry	Concord to Amherst	
	200	.....	.....	Amherst	Derry to Dutton	
	.....	450	.....	Dutton	Amherst to Concord	
	200	.....	.....	Dutton	Concord to Chester	
	200	.....	.....	Chester	Dutton to Amherst	
	.....	300	.....	Lincoln	Amherst to Hanover	
	.....	.....	500	Hanover	Lincoln to Ashland	Ashland and Hanover.
13	550	.....	.....	Hanover	Ashland to Hall	
	.....	1,650	.....	Hall	Hanover to Bridge	Bridge and Hall.
14	.....	300	.....	Bridge	Hall to Belmont	
	.....	1,650	.....	Belmont	Bridge to Hanover	
	.....	.....	450	Hanover	Belmont to Beacon	Beacon and Hanover.
15	.....	800	.....	Hanover	Beacon to east of Alfred	
	.....	800	.....	Hanover	East of Alfred to Beacon	Beacon and Hanover.
16	.....	300	.....	Beacon	Hanover to Amherst	
	.....	1,400	.....	Amherst	Beacon to Ashland	
	.....	.....	300	Ashland	Amherst to Hanover	Ashland and Hanover.
17	900	.....	.....	Hanover	Ashland to Belmont	
	900	.....	.....	Belmont	Hanover to Lowell	
	.....	2,700	.....	Lowell	Belmont to Beech	
	8,250	26,050	8,300			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 2—Route No. 6.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	1,000	.....	Hall	Central to Hanover	Central and Hall.
	.....	800	.....	Hanover	Hall to Beacon	Beacon and Hanover.
2	800	.....	.....	Hanover	Beacon to Hall	
	.....	600	.....	Hanover	Hall to Ashland	Ashland and Hanover.
3	.....	1,800	.....	Hanover	Ashland to Beech	
	.....	600	.....	Beech	Hanover to Merrimack	
	.....	.....	500	Merrimack	Beech to Union	Merrimack and Union.
4	300	.....	.....	Merrimack	Merrimack to Manchester	
	500	.....	.....	Union	Union to Beech	
	.....	2,400	.....	Manchester	Beech to Hall	
	.....	.....	800	Manchester	Manchester to Central	Central and Hall.
5	500	.....	.....	Hall	Central to Merrimack	
	.....	1,150	.....	Hall	Hall to Lincoln	Lincoln and Merrimack.
6	.....	1,800	.....	Merrimack	Lincoln to Union	Merrimack and Union.
7	500	.....	.....	Merrimack	Union to Beech	
	200	.....	.....	Beech	Merrimack to Laurel	
	.....	2,400	.....	Laurel	Beech to Hall	
	.....	.....	250	Hall	Laurel to Central	Central and Hall.
8	.....	1,450	.....	Central	Hall to standpipe	Central, between Lincoln and Maple.
9	.....	950	.....	Central	Standpipe to Beech	
	.....	500	.....	Beech	Central to Merrimack	
	.....	.....	500	Merrimack	Beech to Union	Merrimack and Union.
10	500	.....	.....	Merrimack	Union to Beech	
	750	.....	.....	Beech	Merrimack to Lake avenue	
	.....	2,400	.....	Lake avenue	Beech to Hall	
	.....	.....	200	Hall	Lake avenue to Central	Central and Hall.
11	.....	200	.....	Hall	Central to Lake avenue	
	500	.....	.....	Lake avenue	Hall to Wilson	
	250	.....	.....	Wilson	Lake avenue to Spruce	
	.....	1,550	.....	Wilson	Spruce to Hanover	
	.....	.....	550	Wilson	Hanover to Merrimack	

	.....	.....	600	Merrimack	Wilson to Lincoln	Lincoln and Merrimack.
12	.....	550	.....	Lincoln	Merrimack to Hanover	
	550	.....	.....	Lincoln	Hanover to Merrimack	
	.....	1,600	.....	Lincoln	Merrimack to Auburn	Auburn and Lincoln.
13	550	.....	.....	Auburn	Lincoln to Maple	
	.....	2,100	.....	Maple	Auburn to Hanover	
	.....	.....	1,000	Maple	Hanover to Central	
	.....	.....	250	Central	Maple to standpipe	Central, between Lincoln and Maple.
14	250	.....	.....	Central	Standpipe to Maple	
	500	.....	.....	Maple	Central to Spruce	
	600	.....	.....	Spruce	Maple to Beech	
	.....	1,850	.....	Spruce	Beech to Wilson	
	500	.....	.....	Wilson	Spruce to Auburn	
	.....	600	.....	Auburn	Wilson to Lincoln	Auburn and Lincoln.
15	250	.....	.....	Lincoln	Auburn to Cedar	
	.....	1,200	.....	Cedar	Lincoln to Beech	
	250	.....	.....	Beech	Cedar to Auburn	
	.....	1,200	.....	Auburn	Beech to Lincoln	Auburn and Lincoln.
16	500	.....	.....	Lincoln	Auburn to Spruce	
	.....	1,400	.....	Spruce	Lincoln to Massabesic	
	8,750	30,100	4,650			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 2—Route No. 7.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	1,600	.....	Pine	Bell to East Spruce	Bell and Pine.
	.....	.....	450	Spruce	Pine to Union	Spruce and Union.
2	500	.....	.....	Spruce	Union to Beech	
	500	.....	.....	Beech	Spruce to Central	
	.....	1,000	.....	Central	Beech to Pine	
	.....	1,400	.....	Pine	Central to Amherst	
	.....	.....	650	Amherst	Pine to Vine	Amherst and Vine.
3	300	.....	.....	Amherst	Vine to Chestnut	
	.....	1,100	.....	Chestnut	Amherst to Laurel	
	800	.....	.....	Chestnut	Laurel to Hanover	
	.....	1,400	.....	Hanover	Chestnut to Beech	
	.....	.....	500	Hanover	Beech to Union	
	.....	.....	300	Union	Hanover to Amherst	Amherst and Union.
4	.....	1,900	.....	Union	Amherst to East Spruce	Spruce and Union.
5	450	.....	.....	Spruce	Union to Pine	
	.....	500	.....	Pine	Spruce to Central	
	.....	300	.....	Central	Pine to Chestnut	
	.....	300	.....	Central	Chestnut to Pine	
	.....	500	...	Pine	Central to Spruce	
	.....	.....	150	Spruce	Pine to Union	Spruce and Union.
6	500	.....	...	Union	Spruce to Auburn	
	.....	800	.....	Auburn	Union to Chestnut	
	.....	500	.....	Chestnut	Auburn to Spruce	
	.....	250	.....	Chestnut	Spruce to Lake avenue	Chestnut and Lake avenue.
7	500	.....	.....	Chestnut	Lake avenue to Cedar	
	.....	1,350	.....	Cedar	Chestnut to Beech	
	.....	.....	600	Cedar	Beech to Maple	
	.....	.....	250	Maple	Cedar to Auburn	Auburn and Maple.
8	600	.....	.....	Auburn	Maple to Beech	
	.....	500	.....	Auburn	Beech to Union	
	.....	500	.....	Union	Auburn to Spruce	Spruce and Union.
9	.....	450	.....	Spruce	Union to Pine	

	.....	1,000	.....	Spruce	Pine to Beech	
	.....	500	.....	Spruce	Beech to Union	Spruce and Union.
10	250	.....	.....	Union	Spruce to Lake avenue	
	.....	450	.....	Lake avenue	Union to Pine	
	.....	1,000	.....	Lake avenue	Pine to Beech	
	.....	500	.....	Lake avenue	Beech to Union	
	.....	.....	800	Lake avenue	Union to Chestnut	Chestnut and Lake avenue.
11	.....	500	.....	Chestnut	Lake avenue to Laurel	
	.....	1,350	.....	Laurel	Chestnut to Beech	
	.....	.....	200	Beech	Laurel to Merrimack	
	.....	.....	500	Merrimack	Beech to Union	Merrimack and Union.
12	250	.....	.....	Union	Merrimack to Manchester	
	800	.....	.....	Manchester	Union to Beech	
	.....	1,350	.....	Manchester	Beech to Chestnut	
	.....	800	.....	Manchester	Chestnut to Union	
	.....	.....	250	Union	Manchester to Merrimack	Merrimack and Union.
13	.....	800	.....	Merrimack	Union to Chestnut	
	800	.....	.....	Merrimack	Chestnut to Union	
	.....	500	.....	Merrimack	Union to Beech	
	.....	.....	500	Merrimack	Beech to Union	Merrimack and Union.
14	700	.....	.....	Union	Merrimack to Lake avenue	
	.....	450	.....	Lake avenue	Union to Beech	
	.....	450	.....	Lake avenue	Beech to Union	
	250	.....	.....	Union	Lake avenue to Spruce	
	.....	500	.....	Spruce	Union to Beech	
	.....	500	.....	Spruce	Beech to Union	Spruce and Union.
15	500	.....	.....	Union	Spruce to Auburn	
	.....	500	.....	Union	Auburn to Green	
	.....	500	.....	Green	Union to Beech	
	.....	.....	250	Beech	Green to Grove	Beech and Grove.
16	500	.....	.....	Grove	Beech to Union	
	.....	250	.....	Union	Grove to Green	
	.....	450	.....	Green	Union to Pine	
	250	.....	.....	Pine	Green to Grove	
	.....	450	.....	Grove	Pine to Union	
	.....	.....	500	Grove	Union to Beech	Beech and Grove.
17	.....	500	.....	Grove	Beech to Union	
	.....	500	.....	Union	Grove to Valley	
	8,450	28,150	6,200			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 2—Route No. 8.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	1,400	.....	Elm, west side	Auburn to Pleasant	Auburn and Elm.
	.....	.....	150	Pleasant	Elm to standpipe	Pleasant, east of Franklin.
2	150	.....	.....	Pleasant	Standpipe to Elm	
	.....	1,100	.....	Elm, west side	Pleasant to Amherst	
	.....	.....	300	Amherst	Elm to Vine	Amherst and Vine.
3	300	.....	.....	Amherst	Vine to Elm	
	.....	1,100	.....	Elm, west side	Amherst to Bridge	
	.....	...	300	Bridge	Elm to Birch	
	.....	...	200	Birch	Bridge to Washington	Birch and Washington.
4	200	.....	.....	Birch	Washington to Bridge	
	300	.....	.....	Bridge	Birch to Elm	
	.....	1,100	.....	Elm, east side	Bridge to Amherst	
	.....	.....	300	Amherst	Elm to Vine	Amherst and Vine.
5	300	.....	.....	Amherst	Vine to Elm	
	.....	1,100	.....	Elm, east side	Amherst to Pleasant	
	.....	.....	150	Pleasant	Elm to standpipe	Pleasant, east of Franklin.
6	150	.....	.....	Pleasant	Standpipe to Elm	
	.....	1,400	.....	Elm, east side	Pleasant to Auburn	Auburn and Elm.
7	.....	1,400	.....	Elm, center	Auburn to Pleasant	
	.....	.....	150	Pleasant	Elm to standpipe	Pleasant, east of Franklin.
8	150	.....	.....	Pleasant	Standpipe to Elm	
	.....	1,100	.....	Elm, center	Pleasant to Amherst	
	.....	.....	300	Amherst	Elm to Vine	Amherst and Vine.
9	300	.....	.....	Amherst	Vine to Elm	
	.....	1,100	.....	Elm, center	Amherst to Bridge	
	.....	.....	300	Bridge	Elm to Birch	
	.....	.....	200	Birch	Bridge to Washington	Birch and Washington.
10	200	.....	.....	Birch	Washington to Bridge	
	200	.....	.....	Bridge	Birch to Chestnut	
	.....	1,300	.....	Bridge	Chestnut to Canal	
	.....	.....	1,050	Bridge	Canal to Birch	
	.....	.....	200	Birch	Bridge to Washington	Birch and Washington.

11	200	.....	.....	Birch	Washington to Bridge	
	.....	450	.....	Birch	Bridge to Lowell	
	.....	.....	250	Birch	Lowell to Washington	Birch and Washington.
12	.....	300	.....	Washington	Birch to Elm	
	200	.....	.....	Elm	Washington to Lowell	
	.....	550	.....	Lowell	Elm to Chestnut	
	300	.....	.....	Chestnut	Lowell to Concord	
	.....	550	.....	Concord	Chestnut to Elm	
	250	.....	.....	Concord	Elm to Vine	
	.....	300	.....	Vine	Concord to Amherst	Amherst and Vine.
13	300	.....	.....	Amherst	Vine to Elm	
	.....	550	.....	Amherst	Elm to Chestnut	
	300	.....	.....	Chestnut	Amherst to Hanover	
	.....	550	.....	Hanover	Chestnut to Elm	
	.....	.....	300	Elm	Hanover to Amherst	
	.....	.....	300	Amherst	Elm to Vine	Amherst and Vine.
14	300	.....	.....	Amherst	Vine to Elm	
	350	.....	.....	Elm	Amherst to Market	
	.....	250	.....	Market	Elm to Franklin	
	.....	700	.....	Franklin	Market to Pleasant	Pleasant, east of Franklin.
15	150	.....	.....	Pleasant	Standpipe to Elm	
	500	.....	.....	Elm	Pleasant to Manchester	
	.....	550	.....	Manchester	Elm to Chestnut	
	250	.....	.....	Chestnut	Manchester to Merrimack	
	.....	750	.....	Merrimack	Chestnut to Franklin	
	.....	.....	200	Franklin	West Merrimack to Pleasant	Pleasant, east of Franklin.
16	150	.....	.....	Pleasant	Standpipe to Elm	
	250	.....	.....	Elm	Pleasant to Central	
	.....	550	.....	Central	Elm to Chestnut	
	250	.....	.....	Chestnut	Central to Lake avenue	
	.....	550	.....	Lake avenue	Chestnut to Elm	
	.....	.....	500	Elm	Lake avenue to Pleasant	
	.....	.....	150	Pleasant	Elm to standpipe	Pleasant, east of Franklin.
17	150	.....	.....	Pleasant	Standpipe to Elm	
	250	.....	.....	Elm	Pleasant to West Central	
	.....	800	.....	West Central	Elm to Canal	
	.....	500	.....	Canal	West Central to Granite	Canal and Granite.
18	.....	700	.....	Granite	Canal to Elm	
	.....	.....	550	Elm	Granite to Auburn	Auburn and Elm.
19	.....	550	.....	Auburn	Elm to Chestnut	
	500	.....	.....	Chestnut	Auburn to Spruce	
	.....	550	.....	Spruce	Chestnut to Elm	
	.....	.....	500	Elm	Spruce to Auburn	Auburn and Elm.
20	550	.....	.....	Auburn	Elm to Chestnut	
	250	.....	.....	Chestnut	Auburn to Cedar	
	.....	550	.....	Cedar	Chestnut to Elm	
	.....	.....	300	Elm	Cedar to Granite	
	.....	.....	700	Granite	Elm to Canal	Canal and Granite.

APPROPRIATION FOR WATERING STREETS.—ROUTE No. 8.—*Concluded.*

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	STREET.	LIMITS.	STANDPIPE.
21	.....	1,450	.....	Granite	Canal to Turner	
	.....	.....	2,150	Granite	Turner to Elm	
	.....	.....	550	Elm	Granite to Auburn	Auburn and Elm.
22	.....	1,400	.....	Elm, west side	Auburn to Pleasant	
	.....	.....	150	Pleasant	Elm to standpipe	Pleasant, east of Franklin.
23	150	.....	.....	Pleasant	Standpipe to Elm	
	.....	1,100	.....	Elm, west side	Pleasant to Amherst	
	.....	.....	300	Amherst	Elm to Vine	Amherst and Vine.
24	300	.....	.....	Amherst	Vine to Elm	
	.....	1,100	.....	Elm, west side	Amherst to Bridge	
	.....	.....	300	Bridge	Elm to Birch	
	.....	.....	200	Birch	Bridge to Washington	Birch and Washington.
25	200	.....	.....	Birch	Washington to Bridge	
	300	.....	.....	Bridge	Birch to Elm	
	.....	1,100	.....	Elm, east side	Amherst to Pleasant	
	.....	.....	150	Pleasant	Elm to standpipe	Pleasant, east of Franklin.
27	150	.....	.....	Pleasant	Standpipe to Elm	
	.....	1,400	.....	Elm, east side	Pleasant to Auburn	
	9,100	31,000	11,650			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 2—Route No. 9.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	300	.....	Valley	Willow to Elm	Valley and Willow.
	.....	1,300	.....	Elm	Valley to Auburn	Auburn and Elm.
2	.....	2,300	.....	Elm	Auburn to railroad bridge	
	.....	.....	1,100	Elm	Railroad bridge to Brown avenue	Brown avenue and Elm.
3	.....	1,100	.....	Elm	Brown avenue to railroad bridge	
	.....	.....	1,100	Elm	Railroad bridge to Brown avenue	Brown avenue and Elm.
4	.....	2,600	.....	Brown avenue	Elm to tannery gate	
	.....	.....	800	Brown avenue	Tannery gate to Baker	
	.....	.....	1,000	Baker	Brown avenue to Elm	Baker and Elm.
5	.....	1,150	.....	Elm	Baker to Brown avenue	
	.....	1,150	.....	Elm	Brown avenue to Baker	Baker and Elm.
6	.....	400	.....	Baker	Elm to Calef road	
	.....	1,300	.....	Calef road	Baker to north of Elm avenue	
	.....	.....	400	Calef road	North of Elm avenue to Elm avenue.	
	.....	.....	350	Elm avenue	Calef road to Elm	
	.....	.....	250	Elm	Elm avenue to Brown avenue	Brown avenue and Elm.
7	.....	250	.....	Elm	Brown avenue to Elm avenue	
	.....	350	.....	Elm avenue	Elm to Calef road	
	.....	200	.....	Calef road	Elm avenue to Welch avenue	
	.....	350	.....	Welch avenue	Calef road to Elm	
	.....	.....	450	Elm	Welch avenue to Brown avenue	Brown avenue and Elm.
8	450	.....	.....	Elm	Brown avenue to Cheney place	
	.....	400	.....	Cheney place	Elm to Brown avenue	
	.....	1,200	.....	Hancock	Brown avenue to brewery	
	.....	.....	1,200	Hancock	Brewery to Brown avenue	
	.....	.....	600	Brown avenue	Hancock to Elm	Brown avenue and Elm.
9	.....	1,950	.....	Elm	Brown avenue to Valley	
	.....	.....	250	Valley	Elm to Willow	Valley and Willow.
10	.....	300	.....	Valley	Willow to Elm	
	.....	1,300	.....	Elm	Valley to Auburn	Auburn and Elm.
11	.....	2,300	.....	Elm	Auburn to railroad bridge	
	.....	.....	800	Elm	Railroad bridge to Valley	

APPROPRIATION FOR WATERING STREETS.—ROUTE No. 9.—*Concluded.*

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	STREET.	LIMITS.	STANDPIPE.
	.....	.....	300	Valley	Elm to Willow	Valley and Willow.
12	.....	650	.....	Valley	Willow to Pine	
	.....	250	.....	Pine	Valley to Bell	Bell and Pine.
13	.....	800	.....	Pine	Bell to Hayward	
	.....	500	.....	Pine	Hayward to Valley	
	.....	650	.....	Valley	Pine to Willow	Valley and Willow.
14	.....	300	.....	Willow	Valley to Merrill	
	.....	250	.....	Merrill	Willow to Elm	
	250	.....	.....	Merrill	Elm to Willow	
	.....	1,200	.....	Willow	Merrill to Silver	
	700	24,800	8,600			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 10.—Route No. 10.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	1,550	.....	South Main	A to Log	A and South Main.
	.....	.....	.....	.....	.....	Log and South Main.
2	.....	550	.....	South Main	Log to M. & N. W. R. R.	
	.....	200	.....	South Main	M. & N. W. R. R. to Winter	
	.....	1,350	.....	Winter	South Main to Granite	
	.....	200	.....	Granite	Winter to M. & N. W. R. R.	
	.....	200	.....	Granite	M. & N. W. R. R. to Winter	
	.....	500	.....	Winter	Granite to Parker	Granite and Parker.
3	750	.....	.....	Winter	Parker to South Main	
	.....	1,100	.....	Blaine	South Main to Second	
	.....	150	.....	Second	Blaine to M. & N. W. R. R.	
	.....	1,550	.....	Second	M. & N. W. R. R. to Frederick	
	.....	.....	350	Second	Frederick to West Hancock	West Hancock and Second.
4	.....	600	.....	West Hancock	Second to Dartmouth	
	.....	150	.....	Dartmouth	West Hancock to Goffe	
	.....	450	.....	Goffe	Dartmouth to South Main	
	.....	350	.....	South Main	Goffe to West Hancock	
	.....	500	.....	West Hancock	South Main to Dartmouth	
	500	.....	.....	West Hancock	Dartmouth to South Main	
	.....	300	.....	South Main	West Hancock to Milford	
	.....	450	.....	Milford	South Main to Bowman	Bowman and Milford.
5	.....	800	.....	Bowman	Milford to Mast	
	.....	700	.....	Mast	Bowman to South Main	Log and South Main.
6	1,350	.....	.....	Mast	South Main to Riddle	
	.....	850	.....	Riddle	Mast to Milford	
	.....	500	.....	Milford	Riddle to Bowman	Bowman and Milford.
7	.....	2,300	.....	Milford	Bowman to Sylvester	
	.....	.....	900	Milford	Sylvester to Carroll	Carroll and Milford.
8	.....	850	.....	Carroll	Milford to Rochelle avenue	Charleston avenue and Rochelle avenue.
9	.....	250	.....	Rochelle avenue	Charleston avenue to Mast	
	.....	1,600	.....	Mast	Rochelle avenue to Bowman	
	750	.....	.....	Bowman	Mast to Milford	

APPROPRIATION FOR WATERING STREETS.—ROUTE NO. 10.—*Concluded.*

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	STREET.	LIMITS.	STANDPIPE.
	.....	650	.....	Bowman	Milford to A	
	.....	.....	150	A	Bowman to South Main	A and South Main.
10	.....	750	.....	A	South Main to B	
	.....	350	.....	B	A to Milford	
	.....	750	.....	William	Milford to end of street	
	750	.....	.....	William	End of street to Milford	
	350	.....	.....	B	Milford to A	
	.....	300	.....	B	A to C	
	.....	.....	600	C	B to Boynton	
	.....	.....	350	Boynton	C to A	A and South Main.
11	.....	350	.....	Boynton	A to C	
	.....	600	.....	C	Boynton to B	
	.....	250	.....	B	C to Prince	
	.....	400	.....	Prince	B to Boynton	
	.....	650	.....	Boynton	Prince to A	A and South Main.
12	.....	1,900	.....	Boynton	A to B. J. Mack's house	
	4,450	24,950	2,300			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 10—Route No. 11.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	950	.....	School	Turner to South Main	School and Turner.
	.....	200	.....	South Main	School to Granite	Granite and Main.
2	.....	850	.....	South Main	Granite to M. & N. W. R. R.	
	.....	850	.....	South Main	M. & N. W. R. R. to Granite	Granite and Main.
3	.....	950	.....	Granite	Main to Granite bridge	
	.....	100	.....	Granite	Granite bridge to Turner	
	.....	400	.....	Turner	Granite to School	School and Turner.
4	.....	400	.....	Turner	School to Granite	
	.....	900	.....	Granite	Turner to Main	Granite and Main.
5	.....	1,300	.....	Main	Granite to Adams	
	.....	.....	100	Adams	Main to Main west back	Adams and Main west back.
6	100	.....	.....	Adams	Main west back to Main	
	.....	1,300	.....	Main	Adams to Granite	
	.....	500	.....	Granite	Main to west of West	Granite, west of West.
7	.....	1,000	.....	Granite	West of West to M. & N. W. R. R.	
	.....	500	.....	Quincy	Granite to Douglas	
	.....	150	.....	Douglas	Quincy to Railroad	
	.....	450	.....	Douglas	Railroad to Green	
	.....	.....	200	Green	Douglas to Granite	Granite and Green.
8	.....	200	.....	Green	Granite to Douglas	
	.....	1,150	.....	Douglas	Green to Main	
	.....	.....	350	Main	Douglas to Conant	Conant and Main.
9	.....	1,500	.....	Conant	Main to Quincy	
	.....	200	.....	Quincy	Conant to Douglas	
	250	.....	.....	Douglas	Quincy to Green	
	.....	200	.....	Green	Douglas to Conant	
	.....	150	.....	Conant	Green to Hevey	
	.....	.....	800	Conant	Hevey to Cartier	Cartier and Conant.
10	.....	250	.....	Cartier	Conant to Wilton	
	.....	250	.....	Wilton	Cartier to Notre Dame avenue	
	.....	300	.....	Notre Dame avenue.	Wilton to Adams	
	.....	200	.....	Adams	Notre Dame avenue to Main west back	

APPROPRIATION FOR WATERING STREETS.—ROUTE No. 11.—*Continued.*

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	STREET.	LIMITS.	STANDPIPE.
11	.....	450	.....	Adams	Main west back to Cartier	Adams and Main west back.
	.....	300	.....	Cartier	Adams to Wilton	
	.....	250	.....	Wilton	Cartier to Notre Dame avenue	
	.....	300	.....	Notre Dame avenue	Wilton to Adams	
	.....	200	.....	Adams	Notre Dame avenue to Main west back	Adams and Main west back.
12	.....	100	.....	Adams	Main west back to Main	
	.....	500	.....	Main	Adams to Conant	
	.....	400	.....	Conant	Main to West	
	.....	250	.....	West	Conant to Douglas	
	.....	400	.....	Douglas	West to Main	
	.....	.....	350	Main	Douglas to Conant	Conant and Main.
13	400	.....	.....	Conant	Main to West	
	.....	800	.....	West	Conant to Clinton	
	.....	200	.....	Clinton	West to Dover	
	.....	600	.....	Dover	Clinton to Douglas	
	.....	.....	200	Douglas	Dover to Main	
	.....	.....	350	Main	Douglas to Granite	Granite and Main.
14	550	.....	.....	South Main	Granite to Parker	
	.....	850	.....	Parker	South Main to M. & N. W. R. R.	
	.....	850	.....	Parker	M. & N. W. R. R. to South Main	
	.....	200	.....	South Main	Parker to Clinton	
	.....	300	.....	Clinton	South Main to Dover	
	.....	300	.....	Clinton	Dover to South Main	
	.....	.....	350	South Main	Clinton to Granite	Granite and Main.
15	.....	650	.....	South Main	Granite to Walker	
	.....	1,150	.....	Walker	South Main to west of Turner	Walker, west of Turner.
16	.....	50	.....	Walker	West of Turner to Turner	
	.....	1,000	.....	Turner	Walker to School	School and Turner.
17	400	.....	.....	Turner	School to Granite	
	.....	250	.....	Granite	Turner to School	
	.....	1,600	.....	Second	Granite to M. & N. W. R. R.	
	.....	.....	400	Second	M. & N. W. R. R. to Walker	
	.....	.....	150	Walker	Second to west of Turner	Walker, west of Turner.
18	450	.....	.....	Walker	West of Turner to Third	
	.....	300	.....	Third	Walker to M. & N. W. R. R.	
	.....	1,050	.....	Third	M. & N. W. R. R. to School	

	.....	200	.....	School	Third to Fourth	
	.....	250	.....	Fourth	School to Ferry	
	.....	750	.....	Ferry	Fourth to Turner	Ferry and Turner.
19	300	.....	.....	Turner	Ferry to Bath	
	.....	450	.....	Bath	Turner to Third	
	.....	100	.....	Third	Bath to Ferry	
	.....	550	.....	Ferry	Third to South Main	
	.....	400	.....	South Main	Ferry to Granite	Granite and Main.
20	.....	850	.....	South Main	Granite to M. & N. W. R. R.	
	.....	850	.....	South Main	M. & N. W. R. R. to Granite	Granite and Main.
21	.....	1,300	.....	Main	Granite to Adams	
	.....	.....	100	Adams	Main to Main west back	Adams and Main west back
22	100	.....	.....	Adams	Main west back to Main	
	.....	1,200	.....	Main	Adams to Granite	Granite and Main.
23	.....	200	.....	South Main	Granite to School	
	.....	950	.....	School	South Main to Turner	
	2,550	36,650	3,350			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 10—Route No. 12.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	400	.....	Amory	Main to McGregor	Amory and Main.
	250	.....	.....	McGregor	Amory to Marion	
	.....	300	.....	Marion	McGregor to Main	
	250	.....	.....	Main	Marion to Wayne	
	.....	200	.....	Wayne	Main to McGregor	
	.....	500	.....	McGregor	Wayne to Main	Main and McGregor.
2	500	.....	.....	McGregor	Main to Wayne	
	.....	750	.....	McGregor	Wayne to West Bridge	
	.....	400	.....	West Bridge	McGregor to McGregor bridge	
	.....	400	.....	West Bridge	McGregor bridge to McGregor	
	.....	.....	150	McGregor	West Bridge to Amory	
	.....	.....	400	Amory	McGregor to Main	Amory and Main.
3	.....	900	.....	Main	Amory to McGregor	
	.....	900	.....	McGregor	Main to West Bridge	
	.....	.....	150	McGregor	West Bridge to Amory	
	.....	.....	400	Amory	McGregor to Main	Amory and Main.
4	.....	1,100	.....	Main	Amory to Putnam	Main and Putnam.
5	.....	1,200	.....	Main	Putnam to Adams	
	.....	100	.....	Adams	Main to standpipe	Adams, west of Main.
6	.....	200	.....	Adams	Standpipe to Notre Dame avenue	
	.....	1,150	.....	Notre Dame avenue.	Adams to Putnam	Notre Dame avenue and Putnam.
7	.....	300	.....	Putnam	Notre Dame avenue to Cartier	
	.....	450	.....	Cartier	Putnam to Sullivan	
	.....	600	.....	Sullivan	Cartier to Main	
	450	.....	.....	Main	Sullivan to Schuyler	
	.....	300	.....	Schuyler	Main to Notre Dame avenue	
	.....	.....	250	Notre Dame avenue.	Schuyler to Adams	
	.....	.....	200	Adams	Notre Dame avenue to standpipe	Adams, west of Main.
8	100	.....	.....	Adams	Standpipe to Main	
	.....	1,200	.....	Main	Adams to Putnam	

	.....	300	.....	Putnam	Main to Notre Dame avenue	Notre Dame avenue and Putnam.
9	.....	500	.....	Notre Dame avenue.	Putnam to Wayne	
	.....	250	.....	Wayne	Notre Dame avenue to Cartier	
	.....	500	.....	Cartier	Wayne to Putnam	
	.....	250	.....	Putnam	Cartier to Dubuque	
	.....	500	.....	Dubuque	Putnam to Wayne	
	.....	250	.....	Wayne	Dubuque to Cartier	
	250	.....	.....	Wayne	Cartier to Notre Dame avenue	
	.....	300	.....	Wayne	Notre Dame avenue to Main	
	.....	.....	550	Main	Wayne to McGregor	Main and McGregor.
10	.....	1,100	.....	Main	McGregor to Amory	Amory and Main.
11	.....	150	.....	Amory	Main to Coolidge avenue	
	.....	700	.....	Coolidge avenue	Amory to Kelley	Coolidge avenue and Kelley.
12	.....	1,250	.....	Notre Dame avenue.	Kelley to Wayne	
	550	.....	.....	Notre Dame avenue.	Wayne to Amory	
	.....	200	.....	Amory	Notre Dame avenue to Coolidge ave.	
	.....	.....	700	Coolidge avenue	Amory to Kelley	
13	.....	1,500	.....	Coolidge avenue	Kelley to Mason	
	.....	.....	1,500	Coolidge avenue	Mason to Kelley	Coolidge avenue and Kelley.
14	.....	250	.....	Kelley	Coolidge avenue to Cartier	
	.....	400	.....	Cartier	Kelley to Coolidge avenue	
	250	.....	.....	Coolidge avenue	Cartier to Bremer	
	.....	400	.....	Bremer	Coolidge avenue to Rimmon	
	250	.....	.....	Bremer	Rimmon to Dubuque	
	.....	1,300	.....	Dubuque	Bremer to Amory	Amory and Dubuque.
15	.....	500	.....	Amory	Dubuque to Notre Dame avenue	
	250	.....	.....	Amory	Notre Dame avenue to Cartier	
	250	.....	.....	Cartier	Amory to south of Amory	
	.....	950	.....	Cartier	South of Amory to Kelley	
	.....	250	.....	Kelley	Cartier to Dubuque	
	.....	.....	700	Dubuque	Kelley to Amory	Amory and Dubuque.
16	.....	1,800	.....	Amory	Dubuque to west of Alsace	Amory, west of Alsace.
17	.....	150	.....	Amory	Standpipe to Joliette	
	.....	550	.....	Joliette	Amory to Kelley	
	.....	250	.....	Kelley	Joliette to Alsace	
	.....	500	.....	Alsace	Kelley to Amory	
	.....	.....	100	Amory	Alsace to standpipe	Amory, west of Alsace.
18	100	.....	.....	Amory	Standpipe to Alsace	
	500	.....	.....	Alsace	Amory to Kelley	
	.....	800	.....	Kelley	Alsace to Montgomery	
	.....	550	.....	Montgomery	Kelley to Amory	
	550	.....	.....	Montgomery	Amory to Kelley	
	.....	250	.....	Kelley	Montgomery to Hevey	
	.....	1,000	.....	Hevey	Kelley to south of Amory	
	.....	.....	300	Hevey	South of Amory to Amory	
	.....	.....	550	Amory	Hevey to Dubuque	Amory and Dubuque.

APPROPRIATION FOR WATERING STREETS.—ROUTE No. 12.—*Concluded.*

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	STREET.	LIMITS.	STANDPIPE.
19	.....	550	.....	Dubuque	Amory to Wayne	Amory and Dubuque.
	.....	500	.....	Wayne	Dubuque to Hevey	
	200	.....	.....	Wayne	Hevey to Rimmon	
	.....	500	.....	Rimmon	Wayne to Putnam	
	500	.....	.....	Rimmon	Putnam to Wayne	
	.....	550	.....	Rimmon	Wayne to Amory	
	.....	.....	250	Amory	Rimmon to Dubuque	
20	250	.....	.....	Amory	Dubuque to Rimmon	
	.....	700	.....	Rimmon	Amory to Kelley	
	.....	250	.....	Kelley	Rimmon to Hevey	
	250	.....	.....	Kelley	Hevey to Rimmon	
	.....	250	.....	Kelley	Rimmon to Dubuque	
	5,700	32,300	6,200			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 7—Route No. 13.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	900	.....	Massabesic	Taylor to Old Falls road	Massabesic and Taylor.
	.....	900	.....	Massabesic	Old Falls road to Taylor	Massabesic and Taylor.
2	.....	1,950	.....	Massabesic	Taylor to Lake avenue	
	.....	.....	350	Hall	Massabesic to Central	Central and Hall.
3	350	.....	.....	Hall	Central to Massabesic	
	.....	1,050	.....	Massabesic	Lake avenue to Old Falls road	
	.....	500	.....	Old Falls road	Massabesic to Spruce	
	.....	.....	350	Spruce	Old Falls road to Massabesic	
	.....	.....	250	Massabesic	Spruce to Hall	
	.....	.....	350	Hall	Massabesic to Central	Central and Hall.
4	250	.....	.....	Hall	Central to Lake avenue	
	.....	500	.....	Lake avenue	Hall to Wilson	
	.....	800	.....	Lake avenue	Wilson to Belmont	
	.....	500	.....	Spruce	Wilson to Hall	
	.....	500	.....	Hall	Spruce to Central	Central and Hall.
6	250	.....	.....	Hall	Central to Lake avenue	
	300	.....	.....	Lake avenue	Hall to Belmont	
	.....	1,250	.....	Lake avenue	Belmont to Cass	Cass and Lake avenue.
7	.....	450	.....	Lake avenue	Cass to Canton	
	.....	500	.....	Canton	Lake avenue to Cedar	Canton and Cedar.
8	.....	250	.....	Canton	Cedar to Spruce	
	.....	1,700	.....	Spruce	Canton to Belmont	
	.....	.....	150	Spruce	Belmont to Massabesic	
	.....	.....	250	Massabesic	Spruce to Hall	
	.....	.....	350	Hall	Massabesic to Central	Central and Hall.
9	250	.....	.....	Hall	Central to Lake avenue	
	300	.....	.....	Lake avenue	Hall to Belmont	
	.....	1,050	.....	Belmont	Lake avenue to Summer	
	.....	250	.....	Belmont	Summer to Auburn	
	.....	800	.....	Auburn	Belmont to Wilson	Auburn and Wilson.
10	.....	800	.....	Wilson	Auburn to Lake avenue	
	.....	800	.....	Wilson	Lake avenue to Auburn	Auburn and Wilson.
11	250	.....	.....	Wilson	Auburn to Cedar	

APPROPRIATION FOR WATERING STREETS.—ROUTE NO. 13.—*Concluded.*

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	STREET.	LIMITS.	STANDPIPE.
	.....	450	.....	Cedar	Wilson to Hall	
	.....	250	.....	Hall	Cedar to Spruce	
	.....	500	.....	Hall	Spruce to Auburn	
	.....	250	.....	Hall	Auburn to Summer	Hall and Summer.
12	250	.....	.....	Hall	Summer to Auburn	
	.....	300	.....	Auburn	Hall to Belmont	
	.....	250	.....	Belmont	Auburn to Summer	
	.....	600	.....	Summer	Belmont to Massabesic	
	.....	200	.....	Summer	Massabesic to Dearborn	
	.....	550	.....	Dearborn	Summer to Taylor	
	.....	.....	200	Taylor	Dearborn to Massabesic	Massabesic and Taylor.
13	.....	350	.....	Taylor	Massabesic to Grove	
	.....	800	.....	Grove	Taylor to Belmont	
	2,700	21,350	2,500			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 7—Route No. 14.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	1,300	.....	Belmont	Hayward to Somerville	Belmont and Hayward.
	.....	1,300	.....	Belmont	Somerville to Hayward	Belmont and Hayward.
2	650	.....	.....	Belmont	Hayward to Harvard	
	.....	800	.....	Harvard	Belmont to Wilson	
	.....	250	.....	Wilson	Harvard to Silver	Silver and Wilson.
3	.....	1,000	.....	Silver	Wilson to railroad	
	.....	1,000	.....	Silver	Railroad to Wilson	Silver and Wilson.
4	.....	600	.....	Wilson	Silver to Clay	
	.....	600	.....	Wilson	Clay to Silver	
5	300	.....	.....	Wilson	Silver to Somerville	
	.....	800	.....	Somerville	Wilson to Belmont	
	.....	800	.....	Somerville	Belmont to Wilson	
	.....	.....	300	Wilson	Somerville to Silver	Silver and Wilson.
6	1,400	.....	.....	Wilson	Silver to Valley	
	.....	1,550	.....	Valley	Wilson to Taylor	
	500	.....	.....	Taylor	Valley to Hayward	
	.....	600	.....	Hayward	Taylor to Belmont	Belmont and Hayward.
7	450	.....	.....	Belmont	Hayward to Valley	
	.....	1,050	.....	Belmont	Valley to Summer	
	.....	300	.....	Summer	Belmont to Hall	
	.....	800	.....	Hall	Summer to Bell	
	.....	.....	800	Hall	Bell to Summer	Hall and Summer.
8	.....	250	.....	Hall	Summer to Auburn	
	.....	450	.....	Auburn	Hall to Wilson	
	.....	250	.....	Wilson	Auburn to Summer	
	.....	450	.....	Summer	Wilson to Hall	Hall and Summer.
9	450	.....	.....	Summer	Hall to Wilson	
	.....	2,200	.....	Wilson	Summer to Harvard	
	.....	.....	300	Wilson	Harvard to Silver	Silver and Wilson.
10	.....	800	.....	Silver	Wilson to Belmont	
	.....	950	.....	Belmont	Silver to Hayward	Belmont and Hayward.
11	.....	600	.....	Hayward	Belmont to Taylor	
	.....	1,250	.....	Taylor	Hayward to Somerville	
	3,750	19,950	1,400			

APPROPRIATION FOR WATERING STREETS.

Itemized Operations.

Division No. 7—Route No. 15.

No. of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Street.	Limits.	Standpipe.
1	.....	2,000	.....	Massabesic	Hall road to Taylor	Hall road and Massabesic.
	.....	.....	.....	.....	.....	Massabesic and Taylor.
2	.....	500	.....	Massabesic	Taylor to Cypress	
	.....	500	.....	Massabesic	Cypress to Taylor	Massabesic and Taylor.
3	500	.....	.....	Massabesic	Taylor to Cypress	
	.....	1,500	.....	Massabesic	Cypress to Hall road	Hall road and Massabesic.
4	.....	900	.....	Massabesic	Hall road to Hayward	
	.....	900	.....	Massabesic	Hayward to Hall road	Hall road and Massabesic.
5	900	.....	.....	Massabesic	Hall road to Hayward	
	.....	700	.....	Mammoth road	Hayward to half way to Young	
	.....	.....	700	Mammoth road	Half way from Hayward to Young	
	.....	.....	900	Massabesic	Hayward to Hall road	Hall road and Massabesic.
6	900	.....	.....	Massabesic	Hall road to Hayward	
	700	.....	.....	Mammoth road	Hayward to half way to Young	
	.....	700	.....	Mammoth road	Half way from Hayward to Young	
	.....	.....	1,400	Mammoth road	Young to Hayward	
	.....	.....	900	Massabesic	Hayward to Hall road	Hall road and Massabesic.
7	300	.....	.....	Massabesic	Hall road to Porter	
	.....	350	.....	Porter	Massabesic to Hayward	
	.....	500	.....	Hayward	Porter to Mammoth road	
	.....	.....	500	Hayward	Mammoth road to Porter	
	.....	.....	350	Porter	Hayward to Massabesic	
	.....	.....	300	Massabesic	Porter to Hall road	Hall road and Massabesic.
8	100	.....	.....	Massabesic	Hall road to Valley	
	.....	1,300	.....	Valley	Massabesic to Cypress	
	.....	.....	500	Cypress	Valley to Hayward	
	.....	.....	200	Hayward	Cypress to Foster avenue	Foster Ave. and Hayward.
9	.....	200	.....	Hayward	Foster avenue to Jewett	
	.....	850	.....	Jewett	Hayward to Massabesic	
	400	.....	.....	Massabesic	Jewett to Cypress	
	.....	100	.....	Cypress	Massabesic to Hayward	
	.....	.....	200	Hayward	Cypress to Foster avenue	
10	.....	200	.....	Hayward	Foster avenue to Cypress	Foster Ave. and Hayward.

	500	.....	.....	Cypress	Hayward to Valley	
	.....	600	.....	Valley	Cypress to Taylor	
	.....	800	.....	Taylor	Valley to Massabesic	Massabesic and Taylor.
11	800	.....	.....	Taylor	Massabesic to Valley	
	.....	850	.....	Taylor	Valley to Young	
	.....	.....	250	Taylor	Young to Hayward	
	.....	.....	900	Hayward	Taylor to Foster avenue	Foster Ave. and Hayward.
12	200	.....	.....	Hayward	Foster avenue to Jewett	
	.....	850	.....	Jewett	Hayward to Young	Jewett and Young.
13	.....	350	....	Jewett	Young to Somerville	
	.....	400	.....	Somerville	Jewett to Cypress	
	.....	400	.....	Somerville	Cypress to Jewett	
	.....	350	.....	Jewett	Somerville to Young	Jewett and Young.
14	350	.....	.....	Jewett	Young to Somerville	
	400	.....	.....	Somerville	Jewett to Cypress	
	.....	750	.....	Somerville	Cypress to Taylor	
	.....	750	.....	Somerville	Taylor to Cypress	
	.....	.....	400	Somerville	Cypress to Jewett	
	.....	.....	350	Jewett	Somerville to Young	Jewett and Young.
	.....	1,350	.....	Young	Jewett to Taylor	
	.....	700	....	Young	Taylor to east of Ainsworth avenue	
	.....	.....	650	Young	East of Ainsworth avenue to Jewett	Jewett and Young.
16	.....	850	.....	Jewett	Young to Hayward	
	.....	.....	200	Hayward	Jewett to Foster avenue	Foster Ave. and Hayward.
17	.....	600	.....	Hayward	Foster avenue to Riley avenue	
	.....	.....	600	Hayward	Riley avenue to Foster avenue	
18	.....	500	.....	Foster avenue	Hayward to Valley	
	.....	200	.....	Valley	Foster avenue to Jewett	
	.....	350	.....	Jewett	Valley to Massabesic	
	.....	500	.....	Massabesic	Jewett, easterly to angle	
	6,050	23,250	9,300			

SUMMARY OF SPRINKLING ROUTES.

Route.	A. M.					P. M.					
	Number of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Total.	Number of Loads.	Distance to Begin.	Distance Sprinkled.	Distance to Load.	Total.	Total for Day.
Route No. 1, Division No. 2, north of Webster, River road to Beech	18	6,050	31,850	3,900	41,800	*14	*4,820	*25,480	*3,120	*33,440	75,240
Route No. 2, Division No. 2, Elm to Beech, Harrison to Webster	20	6,050	36,550	3,300	45,900	11	3,950	22,000	2,850	28,800	74,700
Route No. 3, Division No. 2, Elm to Beech, Amherst to Prospect	18	6,350	34,600	6,150	47,100	*14	*5,080	*27,680	*4,920	*37,680	84,780
Route No. 4, Division No. 2, Beech easterly, Bridge northerly	14	2,900	29,800	4,300	37,000	9	3,875	18,250	2,950	25,075	62,075
Route No. 5, Division No. 2, Hanover to Bridge, Beech to top of hill	17	8,250	26,050	8,300	42,600	*14	*6,600	*20,840	*6,640	*34,080	76,680
Route No. 6, Division No. 2, Union to Hall, Hanover to Auburn	16	8,750	30,100	4,650	43,500	*13	*7,000	*24,080	*3,720	*34,800	78,300
Route No. 7, Division No. 2, Chestnut to Beech, Hanover to Valley	17	8,450	28,150	6,200	42,800	*14	*6,760	*22,520	*4,960	*34,240	77,040
Route No. 8, Division No. 2, Bridge to Auburn, Chestnut westerly	27	9,100	31,000	11,650	51,750	*22	*7,280	*24,800	*9,320	*41,400	93,150
Route No. 9, Division No. 2, Pine westerly, Valley southerly	14	700	24,800	8,600	34,100	*11	*560	*19,840	*6,880	*27,280	61,380
Route No. 10, Division No. 10, south of Blaine and Winter	12	4,450	24,950	2,300	31,700	*10	*3,560	*19,960	*1,840	*25,360	57,060
Route No. 11, Division No. 10, Adams to railroad, Turner to Quincy	23	2,550	36,650	3,350	42,550	*18	*2,040	*29,320	*2,680	*34,040	76,590
Route No. 12, Division No. 10, north of Adams, west of Main	20	5,700	32,300	6,200	44,200	*16	*4,560	*25,840	*4,960	*35,360	79,560
Route No. 13, Division No. 7, Wilson to Canton, Lake avenue to Grove	13	2,700	21,350	2,500	26,550	*10	*2,160	*17,080	*2,000	*21,240	47,790
Route No. 14, Division No. 7, Wilson to Taylor, Somerville southerly	11	3,750	19,950	1,400	25,100	*9	*3,000	*15,960	*1,120	*20,080	45,180
Route No. 15, Division No. 7, Taylor to Mammoth road, Massabesic to Young	18	6,050	23,250	9,300	38,600	*14	*4,840	*18,600	*7,640	*31,080	69,680
	258	81,800 Miles 15.49	431,350 Miles 81.69	82,100 Miles 15.54	595,250 Miles 112.72	199	66,105 Miles 12.52	332,250 Miles 62.92	65,600 Miles 12.42	463,955 Miles 87.86	1,059,205 Miles 200.58

WATERING STREETS.

City	9 routes	9 sprinklers
East Manchester	3 routes	3 sprinklers
West Manchester	3 routes	3 sprinklers
Total	15 routes	15 sprinklers

Cost of sprinkling: 15 sprinklers, $75 per day

Sprinkling season:

April 14 to November 1, 200 days.

Thirty per cent of the time, sprinkling probably not necessary.

1908–09–10–11 data as to street sprinkling.

Total number loads for one day, 457.

Distance to begin for one day, 28.01 miles

Distance sprinkled for one day, 144.61 miles.

Distance to load for one day, 27.96 miles.

Total distance traveled for one day, 200.58 miles.

Standpipes, 68.

Capacity of sprinklers, 600 gallons.

Total gallons per day, 274,200.

Average loads per sprinkler per day, 30.46.

Average gallons per sprinkler per day, 18,280.

Average distance traveled per sprinkler per day, 13.37 miles.

Average distance sprinkled per day, 9.64 miles.

Average effectiveness per sprinkler per day, 72 per cent.

Average waste (distance) per sprinkler per day, 28 per cent.

Average cost per mile sprinkled (effective work), $0,518.

Average cost per mile sprinkled (effective work) should be $0.371.

Average distance sprinkled per load of 600 gallons, 1,670 feet or 2.78 feet per gallon.

The effectiveness per sprinkler can be increased by installing more standpipes and changing the location of some of those already in, and rearranging the routes.

APPROPRIATION FOR
FINANCIAL

EXPENDITURES.

For	To	Cr.	
Abatements	Mrs. Mary Adams	$2.34	
	Maude Baker	1.29	
	John W. Connoran	.32	
	James E. Dodge	.79	
	W. G. Garmon	1.00	
	F. X. Graveline	1.17	
	John D. Healy	1.70	
	Ernest Hollman, Jr.	.83	
	J. Byron Huse	8.23	
	C. F. Joyce	1.17	
	Elizabeth B. Mann	2.04	
	Peter E. McQuillan	.60	
	H. W. Moore	1.38	
	Harriet A. Parker heirs	1.17	
	John P. Reardon	5.50	
	J. B. Stewart	.32	
			$29.85
Brown-tail moth contract, dist. w'k	Daniel F. Cronin		2,520.18
" " " private w'k	"		1,327.60
District work, inspector	George B. True		89.82
Labor	Daniel F. Cronin		12.50
Open globes and installing	Manchester T., L. & P. Co.		791.94
Pay roll	Division No. 2	$52.25	
	Commons	330.88	
			383.13
Postage	E. H. Chadbourne, P. M.		78.57
Printing	The John B. Clarke Co.		36.00
Private work, inspector	S. A. Blood	$90.50	
	Aime Boisclair	36.75	
	Denis F. Brassell	77.12	
	Louis Filion	9.75	
	R. B. Johnston	31.13	
	W. A. Leeman	67.87	
	G. H. Loveren	26.75	
	William J. Murphy	65.56	
	James Riley	19.37	
			424.80
Supplies	John B. Varick Co.		18.84
			$5,713.23

BROWN-TAIL AND GYPSY MOTH.

STATEMENT.

RECEIPTS.

Dr.	By	For
$3,000.00	Common Council.....	Brown-tail and gypsy moth
1,016.47	Tax Collector.....	Brown-tail moth tax coll. for private work
1,696.76	Common Council.....	Overdraft
$5,713.23		

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
A		
B		
Brock		
Boynton, e. and w. sides	A to Allen	
Carroll		
C		
Dartmouth		
Erie		
George		
Goffe	Wheelock to West Hancock	
Gove		
Hancock West, n. and s. sides	Merrimack River to South Main	
Huntress		
Mast	South Main to Rockland avenue	
South Main, e. and w. sides	'Squog river to Milford	
McDonald		
Milford, n. and s. sides	South Main to Rochelle avenue	
Oneida		
Prince		
Riddle		
Rockland avenue	Mast to Goffstown line	
Shirley Hill road	Mast road to Rockland avenue	
Wheelock	Goffe to West Hancock	
William		
Worthly road	Rockland avenue to Bedford line	
Total		

DISTRICT No. 1.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	TOTAL. Trees.	TOTAL. Nests.
.....	7	.....	2	.....	.....	.....	.....	.....	3	.....	12	.....
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
.....	1	.....	1	2	.....	.....	.....	.....	.....	.....	2	2
.....	20	.....	4	.....	.....	.....	.....	.....	7	.....	31	.....
.....	9	.....	4	.....	.....	.....	.....	.....	.....	.....	13	.....
.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	2	.....
.....	25	2	.....	.....	.....	.....	.....	.....	.....	.....	25	2
.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	4	.....
.....	.....	.....	4	.....	.....	.....	3	.....	.....	.....	7	.....
.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	2	.....
.....	3	1	.....	.....	.....	.....	.....	.....	.....	.....	13	1
.....	3	.....	.....	.....	.....	.....	.....	.....	2	.....	5	.....
.....	.....	.....	.....	.....	3	.....	3	.....	13	.....	31	.....
.....	7	.....	5	3	.....	.....	1	.....	3	2	83	16
.....	73	11	17	.....	.....	.....	1	31	6	4	7	35
.....	.....	.....	.....	3	.....	.....	5	1	.....	.....	48	4
.....	24	.....	19	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	1	.....	.....	.....	.....	.....	6	...	.....	.....	6	.....
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	11	.....
.....	3	.....	7	.....	8	10	.....	.....	.....	.....	39	24
.....	4	.....	12	.....	.....	.....	4	.....	15	14	8	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	8	.....
.....	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	22	.....
.....	1	.....	17	.....	.....	.....	.....	.....	.....	.....	5	.....
.....	.....	.....	.....	.....	.....	.....	3	.....	2	.....		
.....	169	12	99	6	11	10	27	32	59	20	389	84

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Adams		
Alsace		
Amory		
Barr		
Bartlett		
Bath		
Blaine		
Cartier		
Columbus avenue		
Conant		
Douglas		
Dover		
Dubuque		
Ferry		
Fourth		
Granite	Merrimack river to South Main; Main to Winter	
Gates		
Green		
Hevey		
Joliette		
Kelley		
Laval		
Main	Granite to Amory	
Main, South	Granite to 'Squog river	
Montgomery		
Morgan		
Notre Dame avenue	Conant to Kelley	
Parker		
Putnam		
Quincy		
Railroad		
Rimmon		
School		
Schuyler		
Second	Granite to 'Squog river	
Sullivan		
Third		
Turner		
Walker		
Wayne		
West		
Wilton		
Winter		
Total		

DISTRICT No. 2.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	TOTAL. Trees.	TOTAL. Nests.
.....	1	.....	4	.....	.....	.....	.....	.....	.....	.....	5	.....
.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	8	.....
.....	.....	.....	23	1	.....	.....	26	.....	.....	.....	49	1
.....	2	.....	1	2	.....	.....	.....	.....	.....	.....	3	2
.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	5	.....
.....	2	2	11	2	.....	.....	.....	.....	.....	.....	13	4
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	1	.....	52	11	.....	.....	21	142	2	.....	76	56
.....	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	10	.....
.....	3	.....	9	.....	.....	.....	1	.....	.....	.....	13	.....
.....	30	.....	32	15	.....	.....	.....	.....	1	.....	63	15
.....	11	2	.....	.....	.....	.....	.....	.....	.....	.....	11	2
.....	39	32	38	2	.....	.....	20	6	.....	.....	97	40
.....	.....	.....	8	3	.....	.....	.....	.....	.....	.....	8	3
.....	1	.....	5	2	.....	.....	.....	.....	.....	.....	6	2
.....	60	.....	25	2	.....	.....	.....	.....	1	.....	85	3
.....	.....	.....	7	.....	.....	.....	.....	.....	.....	.....	7	.....
.....	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	6	.....
.....	.....	.....	7	.....	.....	.....	10	.....	.....	.....	17	.....
.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....
.....	.....	.....	3	.....	.....	.....	4	.....	.....	.....	7	.....
.....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	8	.....
.....	29	5	38	3	.....	.....	.....	.....	3	.....	70	8
.....	3	.....	.....	.....	.....	.....	.....	.....	1	.....	4	.....
.....	3	.....	9	.....	.....	.....	1	.....	.....	.....	13	.....
.....	3	.....	.....	.....	.....	.....	4	.....	.....	.....	7	.....
.....	1	.....	45	39	.....	.....	6	113	.....	.....	52	152
.....	.....	.....	29	3	.....	.....	.....	.....	.....	.....	29	3
.....	3	1	1	.....	.....	.....	.....	.....	5	.....	9	1
.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	3	.....
.....	23	.....	10	.....	1	.....	.....	.....	.....	.....	34	.....
.....	1	.....	31	1	.....	.....	27	3	.....	.....	59	4
.....	13	3	12	4	.....	.....	.....	.....	.....	.....	25	7
.....	3	.....	35	3	.....	.....	.....	.....	.....	.....	38	3
.....	.....	.....	32	1	.....	.....	2	.....	2	.....	36	1
.....	3	1	27	3	.....	.....	.....	.....	.....	.....	30	4
.....	8	.....	5	2	.....	.....	.....	.....	.....	.....	14	13
.....	8	1	19	2	.....	.....	1	11	.....	.....	27	3
.....	2	.....	24	.....	.....	.....	3	.....	.....	.....	29	.....
.....	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	6	.....
.....	1	.....	26	55	.....	.....	.....	.....	.....	.....	27	55
.....	5	.....	17	.....	.....	.....	3	1	1	.....	26	1
.....	259	47	601	156	1	.....	161	276	16	.....	1,037	383

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Alsace		
Amory		
Bremer		
Coolidge avenue		
Dubuque		
Dow road		
Eddy road		
Front		
First		
Gardner		
Goffstown road, s. side		
Hevey	Kelley to Bremer	
Joliette		
Kelley	Hevey to Rimmon	
Mill street, Amoskeag		
Main	Amory to Eddy road	
Monmouth		
McGregor		
Rimmon	Kelley to Bremer	
Second		
Taggart	Coolidge avenue, Goffstown road	
Youville	North of Kelley	
Total		

DISTRICT No. 3.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	Total.	
											Trees.	Nests.
.....	.....	.....	.....	.....	.....	.....	11	3	.....	.....	2	.....
.....	1	.....	.....	.....	.....	.....	50	15	.....	.....	1	.....
.....	.....	.....	3	.....	.....	.....	8	8	10	1	24	4
.....	.....	.....	1	.....	2	.....	.....	.....	9	.....	60	15
.....	.....	.....	4						.....	.....	12	8
.....	1	.....	.....	.....	.....	.....	2	.....	.....	.....	3	.....
.....	1	1	2	.....	.....	.....	.....	.....	.....	.....	3	1
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	2	1
.....	1	.....	.....	.....	3	.....	.....	.....	35	8	39	8
.....	17	2	11	1	2	.....	6	.....	15	19	51	22
.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	4	.....
.....	.....	.....	4	.....	.....	.....	4	.....	.....	.....	8	.....
.....	.....	.....	1	.....	.....	.....	7	9	6	.....	14	9
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
.....	2	1	7	4	.....	.....	1	.....	.....	.....	10	5
.....	.....	.....	1	3	.....	.....	1	.....	.....	.....	2	3
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	.....	.....	.....	.....	.....	.....	4	1	.....	.....	4	1
.....	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	7	.....	7	.....
.....	36	5	35	8	7	.....	98	36	82	28	258	77

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Dunbarton road		Stone wall
Front	Goffstown road northerly	Stone wall
Goffstown road	North side	
Omega	Goffstown road front	
Straw road		
Total		

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Adams, North		
Appleton, West	Union to Elm	
Bay		
Beech	Webster to Sagamore	
Carpenter		
Chestnut		
Clarke	Union to Elm	
Clarke, West		
Elm	Rowell to Sagamore	
Hooksett road		
Kennard road		
Liberty		Stone wall
Mammoth road		
Monroe		
North, West		
North	Beech to Elm	
Pine	Webster to Sagamore	
Ray		
River road, both sides	Salmon to Hooksett line	Stone wall
Readey	Elm to River road	2
Russell		
Sagamore	Elm to Smith road	2
Salmon	Beech to Elm	
Salmon, West		
Smyth road		
Thayer		
Trenton		
Union	Sagamore to River road	
Waldo		
Walnut		
Webster	Beech to Elm	
Webster, West		
Total		5

DISTRICT NO. 4.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	TOTAL.	
											Trees.	Nests.
152	15	8	13	6	37	220	7	.....	30	76	102	462
26	30	339	3	.....	1	.....	.....	.....	28	.....	62	365
.....	7	.....	14	13	2	463	.....	.....	8	40	31	516
.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
.....	13	10	2	.....	6	2	.....	.....	2	.....	23	12
178	67	357	32	19	46	685	7	.....	68	116	220	1,355

DISTRICT NO. 5.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	TOTAL.	
											Trees.	Nests.
.....	.....	.....	44	11	.....	.....	16	2	2	.....	62	13
.....	3	.....	37	8	.....	.....	2	.....	.....	.....	42	8
.....	20	4	77	21	.....	.....	.....	.....	.....	.....	97	25
3	.....	.....	36	7	.....	.....	4	2	.....	.....	41	12
.....	.....	.....	19	.....	.....	.....	5	.....	.....	.....	24	.....
.....	31	4	103	22	3	.....	11	.....	2	.....	150	26
.....	12	.....	29	2	.....	.....	.....	.....	.....	.....	41	2
.....	1	.....	4	.....	.....	.....	.....	.....	.....	.....	5	.....
.....	149	25	26	10	.....	.....	.....	.....	1	.....	176	35
.....	1	.....	5	2	.....	.....	2	1	1	.....	9	3
.....	.....	.....	.....	.....	2	.....	.....	.....	1	.....	3	.....
.....	2	2	54	11	.....	.....	1	.....	.....	.....	57	13
26	.....	.....	5	27	14	14	.....	.....	1	7	20	64
.....	12	2	5	2	7	.....	.....	.....	.....	.....	24	4
.....	15	4	16	2	.....	.....	.....	.....	5	.....	36	6
.....	15	14	46	7	.....	.....	5	7	1	.....	67	28
.....	8	.....	54	7	.....	.....	.....	.....	.....	.....	62	7
.....	.....	.....	32	9	.....	.....	14	.....	.....	.....	46	9
301	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	301
8	80	47	191	174	11	1,271	62	18	353	535	699	2,053
.....	3	.....	1	.....	.....	.....	.....	.....	.....	.....	4	.....
.....	.....	.....	.....	.....	.....	.....	2	17	.....	.....	2	17
.....	15	7	85	48	.....	.....	19	13	2	1	123	69
.....	7	3	56	10	.....	.....	13	10	11	41	87	64
.....	8	2	3	1	.....	.....	.....	.....	.....	.....	11	3
.....	3	.....	7	5	7	51	.....	.....	1	5	18	61
.....	.....	.....	8	1	.....	.....	6	1	.....	.....	14	2
.....	5	.....	6	.....	3	.....	.....	.....	4	.....	18	.....
.....	28	9	123	72	12	81	18	3	43	50	224	215
.....	.....	1	1	15	.....	.....	6	.....	.....	.....	22	1
.....	13	3	42	17	.....	.....	32	20	.....	.....	87	40
.....	22	9	59	9	.....	.....	2	.....	Cambs	18	83	36
.....	1	.....	54	22	.....	.....	.....	.....	.....	.....	55	22
338	450	136	1,228	522	59	1,417	220	94	428	657	2,409	2,838

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Bridge street extension		
Candia road		Poles Stone wall
Hanover street	Mammoth road to Candia road	
Lake avenue	Mammoth road to Hanover	
Londonderry turnpike		
Longwood avenue		
Mammoth road		Stone wall
Mystic avenue		
Oakland avenue		
Orchard avenue		
Proctor road		
Revere	Oakland avenue to Longwood avenue	
Wayland avenue		
Wellington road		Stone wall
Woodbine avenue		
Woodland avenue		
Total		

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Candia road, s. side	Mammoth road to Auburn town line	Poles Stone wall
Cohas avenue		
Corning road	Derry road to Mammoth road	
Derry road		
Dickey road		
Island Pond road		Stone wall
Lake Shore road		Stone wall
Londonderry turnpike	Candia road to Auburn town line	
Mammoth road, e. side	Candia road to Londonderry town line	Stone wall
Page road		
Proctor road		
Webster road		
Total		

DISTRICT NO. 6.

Nests	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	Total. Trees.	Total. Nests.
.....	2	.....	12	7	.....	.....	7.	.....	3	.....	24	7
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
3	34	63	58	48	21	162	4	1	19	9	136	289
.....	3	.....	4	1	5	1.	.....	.....	.....	.....	12	2
.....	3	.....	4	.....	.....	.....	.....	.....	.....	.....	7	.....
.....	2	.....	5	1	.....	.....	.....	.....	.....	1	8	1
.....	.....	.....	.....	.....	.....	.....	8	6	1	.....	9	6
132	10	38	52	29	27	98	1.	.....	128	185	218	482
.....	.....	.....	.....	.....	1	2.	.....	.....	.....	.....	1	2
.....	3	.....	6	2	.....	.....	8.	.....	.....	.....	17	2
.....	.....	.....	2	.....	1	12	1.	.....	2	.....	6	12
.....	2	.....	4	.....	.....	.....	.....	.....	1	.....	7	.....
.....	.....	.....	2	.....	.....	.....	1.	.....	.....	.....	3	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	3	160	.....	.....
608	34	305	45	72	68	8,186	3.	.....	54	652	208	9,823
.....	.....	.....	1	1	.....	.....	.....	.....	6	11	7	12
.....	.....	.....	6	15	.....	.....	12	2	.....	.....	18	17
746	624	406	201	176	123	8,461	45	9	218	1,017	681	10,658

DISTRICT NO. 7.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	Total. Trees.	Total. Nests.
18.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
128	13	29	25	164	26	1,424	2	6	12	23	78	1,792
.....	18	13	2	2	.....	.....	8.	.....	26	10	54	25
.....	6	460	34	6	3	52	24	17	12	16	79	551
.....	33	59	34	22	4	.....	4	1	60	210	135	292
.....	6	12	38	22	.....	.....	.....	.....	12	47	56	81
285	36	18	140	77	36	1,920	8	30	86	2,621	306	4,951
450	13	30	60	132	29	9,650.	.....	.....	41	1,941	143	12,203
.....	9	13	11	9	.....	.....	.....	.....	.....	.....	20	22
24	56	117	92	14	1	8	2	5	71	24	222	192
.....	5	1,240	26	8	14	165.	.....	.....	55	610	100	2,023
.....	1	.....	14	29	7	144.	.....	.....	23	97	45	270
.....	3	67	9	12	1	188	2.	.....	18	21	33	288
905	199	2,058	485	497	121	13,551	50	59	416	5,620	1,271	22,690

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Mill road	Willow to M. & L. Railroad	
Mooresville road		
Porter road		Stone wall
Weston road		
Willow		Stone wall
Woodlawn avenue		Stone wall
Cilley road		
High Range road		
Huse road		Stone wall
Harvey road		
Lingard		
Mammoth road, n. side	Candia road to Londonderry town line	
Merrill road	Weston road to Willow	
South road	Willow to Harvey	
Second		
Vinton		
Taylor	Vinton to Holly avenue	
Holly avenue		
Total		

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Baker	M. & L. Railroad to Brown avenue	
Brown avenue		
Byron		
Calef road		
Cheney place		
Elm	M. & L.. Railroad to Baker	
Highland		
Mill road		
Mystic		
Maple		Stone wall
Norfolk		
Shasta		
Stevens		
Westland avenue		
Woodlawn avenue		
Total		

DISTRICT No. 8.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	TOTAL.	
											Trees.	Nests.
.....	6	.....	2	.....	.....	.....	.....	.....	.....	.....	8	.....
.....	5	.....	5	.....	1	9.	.....	.....	8	27	19	36
4	1.	.....	23	12	.....	.....	.....	.....	.....	.....	24	16
.....	4	84	9	1	10	142	1.	.....	63	56	87	283
400	71	29	74	195	53	432	10	1	166	100	274	1,157
1,320	3	1	.....	.....	5	137.	.....	.....	9	8	17	1,466
.....	4.	.....	15	13	2	.....	2.	.....	9	31	32	44
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
108	8	5	51	13	70	21.	.....	.....	181	1,713	310	1,860
.....	73	29	94	56	39	73.	.....	.....	66	34	272	193
.....	.....	.....	.....	.....	.....	.....	5.	.....	.....	.....	5.	.....
.....	19	51	28	18	12	.....	4	15	14	3	77	87
.....	43	19	49	15	8	39	2.	.....	107	68	209	141
.....	10	325	20	31	12	15.	.....	.....	38	95	80	466
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	.....	.....	20	.....	.....	.....	17	1	.....	.....	37	1
.....	.....	.....	3	.....	.....	.....	6.	.....	.....	.....	9	.....
.....	.....	.....	18	1	.....	.....	30	2	.....	.....	48	3
1,832	247	543	412	355	212	868	77	19	661	2,135	1,509	5,763

DISTRICT No. 9.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	TOTAL.	
											Trees.	Nests.
.....	2	.....	17	1	.....	.....	2.	.....	13	53	34	54
.....	60	42	39	48	10	19	2	112	26	82	137	313
.....	.....	.....	4	.....	.....	.....	3.	.....	.....	.....	7	.....
.....	11	9	18	1	.....	.....	9.	.....	5	1	43	11
.....	.....	.....	2	.....	.....	.....	4	1	.....	.....	6	1
.....	43	4	8	1	.....	.....	1.	.....	1	.....	53	5
.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	3	.....
.....	5	69	.....	.....	.....	.....	.....	.....	.....	.....	5	69
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....
6	24	2	24	1	1	.....	12.	.....	.....	.....	67	3
.....	.....	.....	.....	.....	.....	.....	7.	.....	.....	.....	7	.....
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....
.....	.....	.....	12	2	.....	.....	13	1	.....	.....	25	3
.....	.....	.....	.....	.....	1	1.	.....	.....	.....	.....	1	1
.....	.....	.....	4	8	18	180.	.....	.....	60	70	82	258
6	148	126	131	62	30	200	53	114	106	206	474	718

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Beech	Valley to Cilley road	
Belmont	Valley to Hayward	
Cilley road, n. side		
Clay		
Cypress, e. and w. sides		
Dix		
Elm, e. side	Valley to Hayward	
Harvard	Valley to Cilley road	
Hall, e. and w. side	Belmont to Willow	
Hayward, n. and s. sides	Mammoth road to Pine	
Howe		
Jewett, e. and w. sides	Valley to Cilley road	Stone wall
Knowlton		
Lincoln	Dix to Silver	
Maple		
Mammoth road	Massabesic to Cilley road	
Merrill	Willow to Elm	
Prout		
Pine	Valley to Cilley road	
Plummer		
Porter		Stone wall
Prescott		
Riley avenue		
Shasta		
Silver	Belmont to Willow	
Somerville, n. and s. sides		
Taylor, e. and w. sides	Valley to Cilley road	Stone wall
Union	Valley to Willow	
Valley, s. side	Elm to Pine	Pole
Wilson	Valley to Cilley road	
Willow	Valley to Old Hospital grounds, south of Hayward	
Young		Stone wall
Total		

DISTRICT No. 10.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	TOTAL. Trees.	TOTAL. Nests.
	16	1					8				24	1
	4		14	2			24	9			42	11
	5		7				4		4	1	20	1
			9				12				21	
	13	12	14				1		2	8	30	20
	3		2				6		2		13	
	7										7	
			6				25				31	
	1		4				17				22	
	15	1	11				11				37	1
							6	1			6	1
1	23	9	43	6			21	35	2		89	51
			6								6	
							5	4			5	4
							2				2	
	4		12	16							16	16
			4								4	
							6	11			6	11
	3		5		1		26				35	
							3				3	
84			3	1			2	18	9		14	103
			3				4				7	
			10				20	15	1		31	15
	1						20				21	
			27	1			31	19			58	20
	4		23	1			32				59	1
1	2	3	37	29	1		2		8	6	48	39
			5								5	
1	7	7	11	9			7	7	5	22	30	46
			2				16	1			18	1
	21		9						1		31	
4	34	10	22	52	2	29	2	36	12	8	72	139
91	163	43	289	117	4	29	313	156	46	45	813	481

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Auburn, n. and s. sides	Elm to Belmont	
Beacon, e. and w. sides	Spruce to Lake avenue	
Beech, e. and w. sides	Auburn to Lake avenue	
Bell	Pine to Union	
Belmont, e. and w. sides		
Canton, e. and w. sides	Lake avenue to Elliot hospital	
Cedar, n. and s. sides	Elm to Hall	
Chestnut, e. and w. sides	Auburn to Lake avenue	
Cypress		
Elm, e. side	Lake avenue to Valley	Poles
Green, n. and s. sides	Pine to Union	
Grove, n. and s. sides		
Hall, e. and w. sides	Lake avenue to Valley	
Hall road	Massabesic to Lake avenue	
Hospital avenue	Massabesic to Chase avenue	
Hosley		
Jones	Nelson to Benton	
Lake avenue, s. side	Chestnut to Mammoth road	
Lincoln, e. and w. sides	Auburn to Lake avenue	
Mammoth road	Massabesic to Lake avenue	
Maple, e. and w. sides	Auburn to Lake avenue	
Massabesic, e. and w. sides	Belmont to Cypress	Poles
Nelson	Hall road to Mammoth road	
Pine, e. and w. sides	Lake avenue to Auburn	
Spruce, n. and s. sides	Elm to Hall road	
Summer, n. and s. sides	Wilson to Dearborn	
Taylor, e. and w. sides	Massabesic to Valley	
Union, e. and w. sides	Auburn to Lake avenue	
Valley, n. side	Belmont to Cypress	
Wilson, e. and w. sides	Lake avenue to Valley	
Total		

DISTRICT NO. 11.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	Total. Trees.	Total. Nests.
.....	6	.....	12	1	.....	.....	22	15	.....	.....	55	22
.....	.....	.....	5	.....	1	1	2	2	.....	.....	8	2
.....	4	.....	20	1	.....	.....	15	4	.....	.....	39	5
.....	.....	.....	6	1	.....	.....	12	1	.....	.....	18	2
.....	23	15	18	38	.....	.....	5	10	2	.....	48	63
.....	7	.....	6	2	.....	.....	.....	.....	.....	.....	13	2
.....	25	7	32	4	.....	.....	18	28	6	.....	81	39
.....	7	1	.....	.....	.....	.....	.....	.....	.....	.....	7	1
.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	18	.....
.....	.....	.....	16	6	.....	.....	12	2	.....	.....	28	8
.....	3	.....	18	.....	.....	.....	30	16	5	.....	54	16
21	4	.....	3	1	.....	.....	30	289	.....	.....	37	311
.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	2	.....
.....	3	.....	3	.....	.....	.....	.....	.....	1	.....	7	.....
.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	2	.....
.....	.....	.....	17	2	.....	.....	5	12	.....	.....	22	7
.....	30	11	41	30	.....	.....	6	24	7	.....	84	65
.....	3	1	15	.....	.....	.....	.....	.....	.....	.....	18	1
.....	3	.....	13	4	.....	.....	.....	.....	4	2	20	6
.....	8	2	18	6	.....	.....	.....	.....	.....	.....	26	8
1	19	2	20	43	.....	.....	.....	.....	.....	.....	39	46
.....	.....	.....	11	3	.....	.....	3	4	.....	.....	14	7
.....	28	1	14	2	.....	.....	7	1	.....	.....	109	4
.....	25	24	101	87	.....	.....	14	197	1	.....	141	308
.....	.....	9	3	.....	.....	.....	18	1	2	.....	29	4
.....	8	42	8	17	.....	.....	.....	.....	.....	.....	16	59
.....	3	.....	19	1	.....	.....	19	4	.....	.....	41	5
.....	7	4	12	3	.....	.....	1	1	3	29	23	37
.....	1	.....	6	3	.....	.....	5	2	.....	.....	12	5
22	235	119	442	255	1	1	224	612	29	31	1,012	1,033

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Beacon	Lake avenue to Manchester	.....
Belmont	Central to Hanover	Scrubs
Beech	Lake avenue to Hanover	Poles
Cass	Central to Lake avenue	Poles
Central	Chestnut to Cass	Poles
Chestnut	Central to Manchester	.....
Elm	Manchester to Pleasant	.....
Hall	Lake avenue to Hanover	.....
Hall road	Lake avenue to Hanover	.....
Hanover	Pine to Highland	Poles
Lake avenue, n. side	Chestnut to Hall road	Poles
Laurel	Chestnut to east of Cass	Poles
Lincoln	Hanover to Lake avenue	.....
Manchester	Beacon to Chestnut	.....
Mammoth road	Hanover to Lake avenue	.....
Maple	Hanover to Lake avenue	.....
Merrimack	Pine to Hanover street	.....
Merrimack, West	Elm to Franklin	
Milton	Hanover to Lake avenue	Poles
Pine	Hanover to Laurel	.....
Union	Hanover to Lake avenue	.....
Wilson	Hanover to Lake avenue	.....
Total	.....	.....

DISTRICT No. 12.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	TOTAL. Trees.	TOTAL. Nests.
.....	11	.....	8	.....	.....	.....	5	.....	1	.....	25	.....
36	10	1	18	16	.....	.....	.....	.....	6	13	34	66
1	29	34	21	13	.....	.....	.....	.....	.....	.....	50	48
2	1	7	5	8	.....	.....	.....	.....	.....	.....	6	17
14	65	25	98	55	.....	.....	5	6	11	125	179	225
.....	8	.....	4	.....	.....	.....	.....	.....	.....	.....	12	.....
.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....
.....	10	.....	23	4	.....	.....	2	16	1	.....	36	20
.....	9	.....	3	6	.....	.....	.....	.....	1	1	23	6
2	35	2	54	37	1	6	.....	.....	3	.....	95	45
1	26	31	38	15	.....	.....	.....	.....	4	.....	68	47
2	85	105	104	198	.....	.....	6	25	21	.....	216	330
.....	39	2	10	1	.....	.....	.....	.....	1	.....	50	3
.....	102	26	76	39	2	.....	5	16	.....	.....	185	81
.....	8	.....	2	.....	.....	.....	.....	.....	.....	.....	10	.....
.....	19	11	35	12	.....	.....	.....	.....	1	.....	55	23
.....	44	15	51	31	.....	.....	.....	.....	7	.....	102	46
1	8	3	7	10	1	32	3	24	2	.....	13	70
.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....
.....	9	2	18	1	.....	.....	.....	.....	12	.....	39	3
.....	10	3	16	13	.....	.....	.....	.....	8	.....	34	16
59	537	267	501	459	4	38	26	87	89	138	1,241	1,046

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Amherst	Union to Highland	
Ash	Amherst to Bridge	
Ashland	Amherst to Bridge	
Alfred	Hanover to Amherst	
Beacon	Hanover to Amherst	
Beech	Hanover to Amherst	
Belmont	Auburn to Bridge	Pole
Birch	Washington to Bridge	
Bridge	Elm to Mammoth road	
Buzzell	Bridge to East High	
Bedford		
Burgess	Lowell to Hanover	
Chester	Lincoln to Dutton	
Chestnut	Amherst to Bridge	
Concord	Pine to Highland	Poles
West Central		
Canal		
Dutton	Amherst to Concord	
Derry		
Elm	Amherst to Bridge	
Franklin	Market to Middle	
Grant	Hanover northerly	
Gove	Bedford to State	
Hall	Amherst to Bridge	
Hall road	Hanover to Mammoth road	
Hanover	Pine to Highland	
High	Chestnut to Union	
High, East	Maple to Mammoth road	
Hubbard	Hanover to Amherst	
Jane	Nashua to East High	
Lincoln	Amherst to Hanover	
Lowell	Chestnut to Mammoth road	Stone wall
Merrimack, West	Elm to Canal	
Malvern	Concord to East High	
Mammoth road	Hanover to Bridge	
Maple	Amherst to Bridge	
Milton		
Mechanic	Canal to Elm	
Middle	Canal to Elm	
Market	Canal to Elm	
Newell	Bedford to State	
Nashua	East High to Lowell	
Pleasant	Elm to Canal	
Pine	Amherst to Bridge	
Porter avenue	Amherst to Concord	
Payson	Bedford to State	
Stark	Canal to Elm	
South	East High to Lowell	
State	Newell to Granite	
Spring	Elm to Canal	
Union	Hanover to Bridge	
Walnut	Amherst to Bridge	
Water	Canal to Elm	
Weston	Concord to Bridge	
Total		

DISTRICT No. 13.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	Total. Trees.	Total. Nests.
	59	28	74	44			1		6	1	140	73
	13		30	12					1		44	12
	9		40	28			3	6			52	34
									1		1	
	8		36	24					4		48	24
	52	31	27	39							79	70
1	26	1	27	4					6		56	6
	1										1	
	54	9									54	9
			13	7			1				14	7
	12	2									12	2
					1	2			1	2	2	4
	6										6	
	15		5								20	
11	52	18	67	38			1		15		135	67
	4	1	2								6	1
	58	1	7								65	1
	4		2	6					1	17	6	23
	2		2	6							4	6
	14										14	
	34	3	3	1							37	4
	7						3	4			10	4
	3	1									3	1
	23	1	30	38							63	39
	2										2	
	60	1	49	40			6	42	4		119	83
	12	3	7								19	3
	22	2	25	7			15	2	3		65	11
	1										1	
	3										3	
	3		6	5							9	5
1	89	17	109	113	2	2	1	2	11	1	212	136
	24	5									24	5
	2		7		1	17	1				11	17
	2		23	21	1	15	2	2	1		29	36
	7		48	13							55	13
			6								6	
	11	1	2								13	1
	24	6	6								30	6
	22	2									22	2
	8										8	
	9		2								18	
	27	7									27	7
	11	2	20								31	2
			2	6							2	6
	7										7	
	15	5	3								18	5
	1	1									1	1
	2										2	
	21	12	6								27	12
	35	5	25								65	5
	17	3	32	8			5				54	11
	6		2								8	
		12	22						2		14	22
13	899	180	767	460	5	36	39	58	56	21	1,774	776

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Arlington	Maple to Morrison	
Ash	Bridge to Sagamore	
Ashland	Bridge to Pearl	
Beech	Sagamore to Bridge	Poles
Belmont	Bridge northerly	
Blodget	Elm to Smith road	
Bridge		
Old Bridge		
Brook	Elm to Oak	
Brook, West	Elm to Canal	
Canal	Bridge to Sagamore	
Chestnut	Bridge to Sagamore	
Elm street		
Hall	Bridge to Blodget	
Harrison	Elm to Belmont	
Hall road		
Linden	Bridge to Harrison	
Mammoth road	Kennard road to Bridge	
Maple	Bridge to Sagamore	
Mead		
Morrison		
Myrtle	Elm to Belmont	Pole
Nashua		
Oak	Pearl to Sagamore	Stone wall
Orange	Elm to Belmont	Poles
Pearl	Elm to Belmont	
Pennacook	Elm to Union	
Pennacook, West	Elm to Canal	
Pine	Salmon to Bridge	
Prospect	Elm to Belmont	
Russell	Bridge to Sagamore	
Smith road		
Sagamore	Elm to Smith road	
Salmon	Canal to Elm	
Union	Bridge to Sagamore	Pole
Walnut	Bridge to Sagamore	
Warren	Bridge to Pearl	
Walnut back street		
Total		

DISTRICT NO. 14.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	TOTAL. Trees.	TOTAL. Nests.
.....	16	.....	29	26	.....	.....	.....	.....	.....	.....	45	26
.....	24	2	64	19	1	.....	3	.....	1	.....	93	21
.....	1	.....	8	.....	.....	.....	.....	.....	.....	.....	9	.....
2	15	2	74	42	.....	.....	8	.....	.....	.....	97	46
.....	.....	.....	1	2	.....	.....	14	.....	.....	.....	15	2
.....	27	13	79	117	2	2	3	4	3	.....	114	136
.....	25	3	28	17	.....	.....	5	.....	.....	.....	58	20
.....	.....	.....	8	65	.....	.....	4	4	1	273	20	342
.....	41	14	61	26	.....	.....	.....	.....	.....	.....	102	40
.....	1	.....	6	.....	.....	.....	.....	.....	.....	.....	7	.....
.....	9	3	2	.....	.....	.....	.....	.....	.....	.....	11	3
.....	46	8	35	2	.....	.....	.....	.....	1	.....	82	10
.....	82	13	3	.....	.....	.....	.....	.....	.....	.....	85	13
.....	1	.....	46	11	.....	.....	19	15	.....	.....	66	26
.....	47	15	110	27	2	.....	9	1	2	1	170	44
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	9	.....	52	9	1	.....	5	.....	2	.....	69	9
.....	6	21	9	7	5	242	7	14	14	261	41	545
.....	5	.....	75	7	.....	.....	.....	.....	1	.....	81	7
.....	.....	.....	4	1	.....	.....	11	3	.....	.....	15	4
.....	.....	.....	20	.....	.....	.....	.....	.....	.....	.....	20	.....
1	71	45	134	19	.....	.....	12	4	5	.....	222	69
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
10	8	.....	43	5	4	.....	1	2	1	11	57	28
1	38	12	113	65	.....	.....	15	4	3	1	169	83
.....	24	10	122	31	.....	.....	14	7	4	1	164	49
.....	1	.....	32	11	.....	.....	6	2	.....	.....	39	13
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	37	10	66	24	.....	.....	2.	.....	2	.....	107	34
.....	48	17	51	61	.....	.....	3	2	5	.....	207	80
.....	12	1	60	36	2	2	2.	.....	6	.....	82	39
.....	6	.....	51	5	14	850	2.	.....	.....	.....	73	855
.....	11	2	22	.....	.....	.....	8.	.....	.....	.....	41	2
.....	3	.....	.....	.....	.....	.....	.....	.....	3	41	6	41
1	36	15	79	88	.....	.....	1.	.....	1	.....	117	104
.....	16	.....	98	32	.....	.....	3.	.....	3	.....	120	32
.....	3	2	4	3	.....	.....	.....	.....	.....	.....	7	5
.....	.....	.....	1	.....	1	1.	.....	.....	.....	.....	2	1
15	671	209	1,690	758	32	1,097	157	62	65	589	2,616	2,729

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Amoskeag school		
Bakersville school		
Goffe's Falls school		
Harvey District school		
Main-street school		
Mosquito Pond school		
Parker school		
Rimmon school		
St. Marie's school		
St. Raphael's school		
Varney school		
Webster Mills school		
Youngsville school		
Total		

ITEMIZED OPERATIONS.—

LOCATION.	LIMITS.	Poles, etc.
Barry playgrounds		
City farm		
Concord common		
Derryfield park		Shrubs, Etc.
East Side park		
Hanover common		
Merrimack common		
North End playground		
Park common		
Parker common		
Prout park		
Prout residence		
Simpson's park		
Stark park		
Tremont common		
Wolf park		
Total		

DISTRICT No. 15.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	Total. Trees.	Total. Nests.
.....	.....	.....	20	.....	.....	.....	.....	.....	.....	.....	20	.....
.....	1	.....	16	1	.....	.....	.....	.....	1	.....	18	1
.....	11	.....	10	.....	.....	.....	.....	.....	.....	.....	21	.....
.....	18	.....	13	1	1	1	.....	.....	73	1	105	3
.....	11	2	10	12	.....	.....	.....	.....	.....	.....	21	14
.....	2	6	1	4	.....	.....	.....	.....	10	18	13	28
.....	6	.....	5	1	.....	.....	.....	.....	.....	.....	11	1
.....	.....	.....	11	1	.....	.....	.....	.....	.....	.....	11	1
.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	2	.....
.....	8	1	12	.....	.....	.....	.....	.....	.....	.....	20	1
.....	3	.....	13	1	.....	.....	.....	.....	.....	.....	16	1
.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....	4	.....
.....	2	.....	2	5	18	318	.....	.....	12	23	34	346
.....	64	9	117	26	19	319	.....	.....	96	42	296	396

DISTRICT No. 16.

Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	Total. Trees.	Total. Nests.
.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....
.....	15	.....	9	.....	.....	.....	16	.....	257	204	297	204
.....	100	3	36	.....	1	2	.....	.....	2	13	139	18
760	132	110	464	361	298	1,012	32	46	1,089	1,840	2,015	4,129
8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8
.....	47	4	49	5	1	.....	.....	.....	7	.....	109	9
.....	54	6	108	15	5	.....	1	.....	4	.....	172	21
.....	.....	.....	121	4	31	10	.....	.....	.....	.....	152	14
.....	70	1	2	.....	1	.....	.....	.....	.....	.....	73	1
.....	4	1	129	12	217	14	.....	.....	2	2	352	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	14	.....	4	.....	.....	.....	.....	.....	2	.....	20	.....
.....	269	16	620	22	20	12	65	4	1,943	29	2,917	83
.....	60	3	28	4	3	7	.....	.....	8	.....	99	14
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
768	768	144	1,570	423	577	1,057	114	50	3,314	2,088	6,348	4,530

SUMMARY.

District.	Poles, shrubs, etc.	Nests.	Elm.	Nests.	Maple.	Nests.	Oak.	Nests.	Poplar.	Nests.	Others.	Nests.	Total.	
													Trees.	Nests.
1	.....	.....	169	12	99	6	11	10	27	32	59	20	354	82
2	.....	.....	259	47	601	156	1	.....	161	276	16	.....	1,037	383
3	.....	.....	36	5	35	8	7	.....	98	36	82	28	258	77
4	.....	178	67	357	32	19	47	685	7	.....	68	116	220	1,355
5	.....	338	450	136	1,228	522	59	1,417	220	94	428	657	2,409	2,888
6	.....	746	624	406	201	176	123	8,461	45	9	218	1,017	681	10,655
7	.....	905	199	2,058	485	497	121	13,551	50	59	416	5,620	1,271	22 690
8	.....	1,832	280	546	431	355	212	868	84	19	661	2,135	1,568	5,756
9	.....	6	148	126	131	62	30	200	53	114	106	206	474	718
10	.....	91	163	43	289	117	4	29	313	156	46	45	813	481
11	.....	22	235	119	442	255	1	1	224	612	29	31	1,012	1,033
12	.....	59	537	267	591	459	4	38	26	87	89	138	1,241	1,046
13	.....	13	899	180	767	460	5	36	39	58	56	21	1,774	776
14	.....	15	671	209	1,690	758	32	1,097	157	62	65	589	2,616	2,729
15	.....	.....	64	9	117	26	19	319	.....	.....	96	42	296	396
16	.....	768	768	144	1,570	423	577	1,057	114	50	3,314	2,088	6,348	4,530
	.....	4,973	5,569	4,664	8,709	4,299	1,253	27,769	1,618	1,664	5,749	12,753	22,372	55,545

During the winter 85,000 nests were painted in Derryfield park and 35,000 in Stark park.

PERCENTAGE REPORT.

	Classified Expenditures.	Percent of Total Expenditures.
Abatements	$29.85	.0052
Brown-Tail Moth contract (District work)	2,520.18	.4411
Brown-Tail Moth contract (Private work)	1,327.60	.2325
District Work Inspector	89.82	.0157
Labor	12.50	.0022
Open globes and installing	791.94	.1386
Pay-roll	383.13	.0671
Postage	78.57	.0137
Printing	36.00	.0063
Private Work Inspector	424.80	.0743
Supplies	18.84	.0033
Total expenditures	$5,713.23	
Appropriation	.....	$3,000.00
Credits	.....	1,016.47
Overdrafts	.....	1,696.76
	$5,713.23	$5,713.23

APPROPRIATION FOR CUTTING AND TRIMMING TREES.

Financial Statement.

For	To	Cr.		Dr.	By	For
Claim	Geo. W. Rief	.....	$2.50	$2,350.00	Common Council	Cutting and trimming trees.
Insurance (Liability)	Putnam & Laflamme	.....	17.54			
Pay-roll	Division No. 2	$2,354.39				
	9	10.11				
	10	8.10				
			2,372.60			
Supplies	People's Gas Light Co.	$0.50				
	H. A. Piper	.40				
	John B. Varick Co.	18.00				
			18.90			
			$2,411.54	$2,350.00		
				61.54	Common Council	Overdraft.
			$2,411.54	$2,411.54		

APPROPRIATION FOR CUTTING AND TRIMMING TREES.

Itemized Operations.

Location.	Trees cut.	Labor.	Trees trimmed.	Labor.
A, Main to B	..	.....	20	$40.20
Amherst, at No. 411, rear	4	$8.04	..	.....
Amherst, at No. 423	..	.....	1	.50
Amherst, southwest corner Belmont	2	10.72	..	.....
Amherst, northwest corner Belmont	1	5.04	..	.....
Amherst, northeast corner Belmont	1	6.30	..	.....
Amory, at No. 25	4	18.37	..	.....
Ash, at No. 78	..	.....	2	1.09
Beech, west side, Silver southerly	2	4.02	..	.....
Beech, northwest corner Merrimack	..	.....	12	30.24
Beech, southeast corner Lowell	1	22.78	..	.....
Beech, east side, north of Lowell	1	9.38	..	.....
Belmont, at No. 321	1	4.36	..	.....
Belmont, west side, north of Amherst	4	26.13	..	.....
Bridge, south side, west of Chestnut	1	6.70	..	.....
Bridge, Pine to Union	..	.....	6	5.36
Bridge, southwest corner Walnut	..	.....	4	7.63
Bridge, at No. 284	2	24.12	..	.....
Buzzell, at No. 32	3	9.38	..	.....
Buzzell, at No. 48	2	6.70	..	.....
Buzzell, at No. 63	3	10.72	..	.....
Central, southeast corner Maple	2	12.06	..	.....
Chestnut, northwest corner Bridge	1	14.74	..	.....
Chestnut, west side, north of Pearl	1	10.72	..	.....
Chestnut, north of Brook	1	10.72	..	.....
Chestnut, southwest corner Salmon	..	.....	14	15.41
Concord, southwest corner Union	1	16.80	..	.....
Concord, south side, Walnut easterly	2	62.31	..	.....
Concord, north side, east of Ashland	1	18.76	..	.....
Cypress, northeast corner Somerville	3	12.73	..	.....
Dix, north side, east of Taylor	2	10.33	..	.....
Dix, at No. 821	5	28.62	..	.....
Elm, east side, north of Valley	1	18.76	..	.....
Elm, west side, north of Valley	1	18.76	..	.....
Elm, east side, Hanover southerly	2	14.74	..	.....
Elm, at No. 1943	2	3.02	..	.....
Goffe's Falls	..	.....	2	1.68
Goffe's Falls	..	.....	6	5.36
Granite, north side, opposite Second	1	24.08	..	.....
Granite and Main	1	21.41	..	.....
Granite, at No. 406	1	18.53	..	.....
Hall, east side, north of Spruce	1	.76	..	.....
Hall, east side, south of Hanover	2	20.10	..	.....
Hanover, Pine westerly	1	6.70	..	.....
Hanover, at No. 407	1	3.86	4	1.50
Hanover, south side, east of Hall	1	10.10	..	.....
Hayward, at No. 293	1	15.00	3	5.27
High, East, at No. 316	1	32.83	..	.....
Lake avenue, at No. 167	1	4.69	..	.....
Lake avenue, northwest corner Union	1	30.82	..	.....
Laurel, at No. 184	..	.....	2	.84
Laurel, at No. 207	..	.....	1	5.36
Laurel, at No. 214	..	.....	3	6.70
Lincoln, at No. 428	1	3.18	..	.....
Lincoln, northwest corner Manchester	2	4.20	..	.....
Linden, at No. 6	1	24.12	..	.....
Lowell	1	5.04	2	3.36
Main, north of Adams	1	4.12	..	.....
Mammoth road, at Huse road	1	12.06	..	.....
Mamoth road, South, at No. 25	1	6.70	..	.....
Machester, north side, west of Beech	1	5.04	..	.....
Manchester, at No. 374	1	15.24	..	.....
Manchester, at No. 439	..	.....	2	2.80
Manchester, at No. 49	..	.....	4	9.24

APPROPRIATION FOR CUTTING AND TRIMMING TREES.—*Concluded.*

Itemized Operations.

Location.	Trees cut.	Labor.	Trees trimmed.	Labor.
Manchester and Wilson	2	$32.00	2	$4.12
Massabesic, at Hospital avenue	1	4.56	..	.....
Merrimack, north side, east of Beech	..	.....	2	3.36
Merrimack, south side, east of Maple	1	5.45	..	.....
Merrimack common, at Public Comfort	1	5.29	..	.....
Morrison, at No. 29	3	8.71	..	.....
Myrtle, north side, east of Union	..	.....	1	4.50
Nelson	1	5.04	..	.....
Notre Dame Avenue and Wilton	2	5.46	..	.....
Orange, north side, Pine easterly	1	12.06	..	.....
Orange, at No. 150	..	.....	6	10.08
Orange, east of Ash	1	9.51	6	4.80
Orange, at No. 302	1	6.70	..	.....
Pine, east side, south of Hanover	1	40.54	1	1.50
Pine, east side, Amherst northerly	1	6.70	..	.....
Pine, east side, Seneca lane to Lowell	2	9.81	..	.....
Pine, at No. 490	1	4.59	..	.....
Pine, at No. 504-506	1	5.46	..	.....
Prospect, south side, east of Elm	2	15.67	..	.....
Salmon, at dump	1	5.36	..	.....
School, at No. 58	1	17.00	4	7.12
Second, at No. 305	2	24.00	5	5.83
Spruce, south side, west of Lincoln	3	12.25	2	2.06
Spruce, at No. 301	..	.....	5	8.74
Taylor, at No. 69	5	25.44	..	.....
Union, east side, Lake avenue south back to Spruce	3	18.76	..	.....
Union, west side, Harrison to Brook	..	.....	1	2.18
Webster, east of Elm	..	.....	1	1.00
West Manchester, miscellaneous	..	.....	10	10.00

APPROPRIATION FOR CUTTING AND TRIMMING TREES.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Claim	$2.50	.001
Insurance (Liability)	17.54	.007
Pay-roll	2,372.60	.984
Supplies	18.90	.008
Total expenditures	$2,411.54	
Appropriation	.....	$2,350.00
Overdraft	.....	61.54
	$2,411.54	$2,411.54

APPROPRIATION FOR ELM LEAF BEETLE.

Financial Statement.

For	To	Cr.	Dr.	By	For
Arsenate of lead.....	John B. Varick Co.....	$504.00	$3,000.00	Common Council.....	Elm Leaf beetle.
Elm Leaf Beetle contract	Daniel F. Cronin.....	2,869.57			
Labor—Inspection ...	Sewall A. Blood.....	79.86			
Pay-roll	Division No. 2.....	3.84			
		$3,457.27	$3,000.00		
			457.27	Common Council.....	Overdraft.
		$3,457.27	$3,457.27		

APPROPRIATION FOR ELM LEAF BEETLE.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Arsenate of lead	$504.00	.147
Elm Leaf Beetle contract	2,869.57	.828
Labor—inspection	79.86	.023
Pay-roll	3.84	.002
Total expenditures	$3,457.27	
Appropriation	.....	$3,000.00
Overdraft	.....	457.27
	$3,457.27	$3,457.27

SEWER DEPARTMENT.

NEW SEWERS AND REPAIRS OF SEWERS.

APPROPRIATION FOR NEW SEWERS.

Financial Statement.

For	To	Cr.		Dr.	By	For
Brick	W. F. Head & Son		$1,246.81	$49,400.00	Common Council	New Sewers.
Cement	Manchester Supply Co.	$241.60				
	Henry W. Parker	951.48				
			1,193.08			
Claims	W. W. Hamilton		3.50			
Coal contract	L. B. Bodwell		514.53			
Mile Brook culvert	Hanscom Construction Co.		1,000.00			
Freight and car service	Boston & Maine R. R.		2,775.83			
Insurance	Putnam & Laflamme		904.60			
Iron castings	Concord Foundry & Machine Co.		2,076.69			
Lumber	B. F. Greer	$1,375.46				
	Cavanaugh Bros. & Maxwell	178.68				
	West Side Lumber Co.	255.02				
			1,809.16			
Pay-roll	Division No. 2	$13,699.11				
	7	4,556.66				
	10	6,821.47				
			25,077.24			
Sewer pipe	Eastern Clay Goods Co.	$3,596.33				
	Manchester Supply Co.	20.71				
	Pike & Heald Co.	11.63				
			3,628.67			
Supplies	Geo. W. Dodge Shoe Co.	$61.05				
	Drew Machinery Agency	5.00				
	The Inter-Oceanic Commercial Co.	70.00				
	Pike & Heald Co.	6.64				
	The B. H. Piper Co.	16.00				
	Standard Oil Co.	39.20				
	Stark Mills	64.50				
	John B. Varick Co.	387.87				
			650.26			
Traveling expenses	Emile A. Blanchet	$2.64				

	Edward Deloria	1.79		
	Hercules Gagnon	1.79		
	Sonnie Grover	1.79		
			8.01	
			$40,888.38	$49,400.00
Balance	Common Council	.....	8,511.62	
			$49,400.00	$49,400.00

NEW SEWERS—MISCELLANEOUS WORK.

Location.	Limits.	Nature of Work.	Cost Data. Pipe.
Amory	McGregor west back	Building cesspool	$1.40
Beech	Auburn	Building cesspool	.40
Bridge	Union	Building cesspool between tracks	1.68
Boynton	Bank	Building manhole	.....
Byron	Nos. 91-99	Digging sewer ditch	.....
Byron	No. 96	Refilling sewer ditch	.....
Carpenter	Elm to Bay	Building cesspools	5.88
Chestnut	Myrtle	Building cesspools	3.03
Douglas	Between Dover and West	Making sewer connection	.....
Elm	Valley	Building cesspools between tracks	13.68
Elm	Amherst	Building cesspools between tracks	15.84
Elm	Appleton to Clarke	Building cesspools	1.12
Essex	Amory	Building cesspools	.....
Everett	West Clarke to Thayer	Building cesspools	4.60
Front	Olivet chapel	Flushing sewer	1.20
Granite	.....	.....	.....
Grove	Elm	Building cesspools	4.56
Hall	East High	Building cesspools	2.24
Hayward	Elm to Willow	Building cesspools	7.92
Kelley	Notre Dame avenue to Morgan	Building cesspools	4.76
Kelley	At No. 140	Making sewer connection	.....
Laurel south back	West of Maple	Building manhole	.80
Lowell	Maple and Nashua	Building cesspools and manholes	13.00
Main	Adams	Building cesspool	.20
Maple	Shasta to Auburn	Building cesspool	157.08
Merrimack	Maple, easterly	Flushing out sewer	.....
Merrimack	Between Lincoln and Wilson	Putting in sewer connection	16.80
Milford	Bowman	Building cesspool	1.68
Monroe	River road	Building cesspool	1.68
Nutfield lane	Rear Towne block	Cleaning cesspool	.....
Pine	Willow	Building cesspools	.....
Pine	Concord to Lowell	Building cesspools and manholes	41.04
Porter avenue	Amherst	Building cesspools	4.20
Ray	Carpenter, northerly	Filling trench	.....
Shasta	Union to Maple	Building cesspools	4.20
Silver	Maple	Building cesspool	.....
Union	Auburn, southerly	Extending culvert foundation	119.24
Union	Between Clarke and Carpenter	Building cesspool	2.80
Union	Amherst	Repairing cesspool	.....
Valley	Elm	Building cesspools	1.68
Walnut	Sagamore	Building cesspool	6.40
Willow	Between Shasta and Hayward	Building cesspools and manhole	95.04
	East Side Park	Laying pipe for cesspool	9.40
		Overhauling steam drill	.....
		Moving shanty	.....
		Hauling pipe	.....
		Unloading cement	.....
		Unloading pipe	.....
		Unloading castings	.....
			$543.55

ITEMIZED OPERATIONS.

COST DATA.

Brick.	Cement.	Castings.	C. P. Stone.	Labor.	City Teams.	Hired Teams.	S. and S.	Total Cost.
$8.10	$2.80	$10.25	$3.39	$18.48	.....	.....	$2.22	$46.64
12.60	2.45	16.00	.....	21.60	.....	.....	2.65	55.70
22.50	5.95	23.25	.....	45.59	.....	.....	4.95	103.92
19.80	1.75	11.50	.....	27.39	.....	$11.12	3.58	75.14
.....	.....	.....	.....	51.44	.....	.....	2.57	54.01
.....	.....	.....	.....	3.00	$2.24	.....	.26	5.50
18.90	2.80	26.25	.....	47.98	.....	.....	5.09	106.90
7.20	1.93	10.25	3.39	32.94	.....	.....	2.94	61.68
.....	.....	.....	.....	63.56	.....	.....	3.18	66.74
28.80	7.35	51.00	.....	111.66	.....	5.00	10.88	228.37
17.10	5.60	24.50	.....	47.24	5.00	.....	5.76	121.04
12.60	1.75	10.25	.....	25.74	.....	.....	2.57	54.03
9.45	2.80	.....	3.77	18.40	.....	1.12	1.78	37.32
18.00	6.30	15.50	.....	45.70	.....	.....	4.50	94.60
.....	.....	.....	.....	37.69	.....	4.48	2.11	44.28
.....	.35	.....	.....	1.68	.....	.....	.16	3.39
14.40	2.80	20.50	6.78	28.42	.....	.....	3.87	81.33
9.00	2.80	10.25	3.77	27.38	.....	.....	2.77	58.21
25.20	9.10	10.25	.....	20.23	.....	.....	3.64	76.34
18.90	5.60	15.00	.....	645.80	.....	68.40	37.93	796.39
.....	.....	.....	.....	6.58	.....	.....	.33	6.91
9.00	1.75	10.50	.....	16.92	.....	.....	1.95	40.92
55.80	13.48	85.00	.....	93.60	20.00	.....	14.04	294.92
7.65	2.80	10.25	3.39	13.42	.....	2.80	2.03	42.54
5.40	115.15	38.00	.....	558.98	.....	54.41	46.46	975.48
.....	.....	.....	.....	1.07	.56	.....	.08	1.71
15.30	.53	8.50	.....	54.74	.....	4.48	5.01	105.36
16.65	4.90	16.50	6.78	17.82	.....	2.24	3.32	69.89
7.56	2.10	10.25	.....	19.44	.....	.....	2.05	43.08
.....	.....	.....	.....	1.76	.....	.84	.13	2.73
18.90	8.40	4.50	.....	.....	.....	.....	1.59	33.39
67.14	24.85	97.25	3.39	100.41	.....	.....	16.70	350.78
20.34	6.65	30.75	11.31	77.22	5.00	.....	7.77	163.24
.....	.....	.....	.....	6.23	5.00	.....	.56	11.79
20.34	6.65	30.75	11.31	275.97	.....	29.55	18.94	397.71
.....	.....	.....	.....	48.72	.....	.....	2.44	51.16
2.93	2.10	8.00	.....	498.26	35.00	32.24	34.89	732.66
5.40	1.40	8.00	.....	18.77	.....	.....	1.82	38.19
2.43	.70	8.00	3.39	.....	.....	.....	.73	15.25
14.40	3.50	26.50	.....	.....	.....	.....	2.30	48.38
7.56	2.23	10.25	.....	.....	.....	.....	1.32	27.81
180.00	.....	22.50	.....	.....	.....	.....	14.88	312.42
.....	.18	.....	.....	23.53	.....	.....	1.66	34.77
.....	.....	.....	.....	21.23	.....	.....	1.06	22.29
.....	.....	.....	.....	4.50	.....	5.00	.48	9.98
.....	.....	.....	.....	2.42	2.23	6.16	.54	11.35
.....	.....	.....	.....	50.18	18.36	9.48	3.90	81.92
.....	.....	.....	.....	564.06	.....	32.80	29.84	626.70
.....	.....	.....	.....	31.03	3.80	.....	1.74	36.57
$699.35	$259.55	$680.25	$60.67	$3,828.78	$97.19	$270.12	$321.97	$6,761.43

APPROPRIATION FOR NEW SEWERS.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Brick	$1,246.81	.03049
Cement	1,193.08	.02918
Claims	3.50	.00009
Coal	514.53	.01259
Contract—Mile brook culvert	1,000.00	.02446
Freight and car service	2,775.83	.06788
Insurance	904.60	.02213
Iron castings	2,076.69	.05079
Lumber	1,809.16	.04425
Pay-roll	25,077.24	.61331
Sewer pipe	3,628.67	.08875
Supplies	650.26	.01591
Traveling expenses	8.01	.00019
Total expenditures	$40,888.38	1.00000
Appropriation	.....	$49,400.00
Balance	8,511.62	
	$49,400.00	$49,400.00

APPROPRIATION FOR NEW SEWERS

Itemized Operations

Location	Limits	Material	Description: Size	Length	M. H.	L. H.	H. C.	C. P. C.	Cost Data: Pipe	Brick.	Cement	Castings	Coal	Dynamite	Lumber and Tools	Lights, Repairs, Equip., Sup.	Labor	City Teams	Hired Teams	S. and S.	Nature of Excavation	Average Cut	Cost per foot	Total
Alfred	At Hanover	Akron	10	109	1	.....	2	..	$22.60	$9.00	$2.10	$10.75	.....	.....	.....	$3.17	$26.84	.....	.....	$3.72	Gravel	6	$0.72	$78.18
Amory	Congress, westerly	Akron	10	202	1	.....	7	..	43.20	11.70	3.50	10.50	.....	.....	$38.38	5.96	91.57	.....	$2.24	10.35	Sand	13.5	1.08	217.40
Auburn south back	Maple, westerly	Akron	10	68	1	.....	...	1	14.00	9.00	1.75	10.75	.....	.....	12.92	1.94	96.41	.....	.....	7.34	Dump and sand	10	2.27	154.11
Baker	Elm to Calef road	Akron	10	488	2	.....	12	6	119.20	42.00	7.00	21.75	.....	.....	92.72	14.54	137.12	.....	.....	25.73	Sand	7	1.11	540.36
Baker	Willow, westerly	Akron	10	198	1	1	7	..	44.60	23.40	8.75	15.75	.....	.....	37.62	5.84	255.69	.....	.....	19.58	Sand	13	2.08	411.23
Bank	Boynton to Huntress	Akron	12	370	2	.....	13	..	99.80	27.00	7.35	21.50	.....	.....	70.30	11.00	391.82	.....	13.08	32.09	Sand	10.5	1.82	673.94
Beech	Spruce to Spruce south back	Akron	10	127	2	.....	2	1	26.60	12.60	4.70	21.50	.....	.....	24.13	3.71	146.41	.....	.....	11.98	Sand	9	1.98	251.63
Bell	Elm, easterly	Akron	12	40	1	.....	...	1	10.50	10.80	1.40	10.75	.....	.....	7.60	1.10	48.37	.....	.....	4.53	Sand	8	2.38	95.05
Bremer	Joliette to Laval	Akron	10	250	1	.....	1	..	50.40	8.10	3.85	10.75	.....	.....	47.50	7.40	324.04	.....	5.00	22.85	Sand	6	1.92	479.39
Brock	Milford, northerly	Akron	10	220	1	.....	...	..	44.00	9.00	3.50	10.75	.....	.....	.....	6.50	390.00	.....	.....	23.19	Gravel	9	2.19	486.94
Burgess	East High, southerly	Akron	10	234	..	1	9	..	61.20	.....	2.45	3.25	.....	.....	.....	6.92	170.91	.....	.....	11.74	Gravel	7.5	1.05	246.47
Byron	West of Brown avenue, westerly	Akron	10	250	1	.....	10	..	54.00	8.10	3.50	14.50	.....	.....	.....	7.40	217.47	$3.25	4.12	15.62	Gravel	9	1.31	327.96
Calef road	Baker, northerly	Akron	10	48	..	.....	...	..	9.60	.....	.53	.....	.....	.....	9.12	1.34	78.16	.....	.....	4.94	Sand	5	2.16	103.69
Candia road	Orchard avenue, easterly	Akron	12	150	..	1	4	..	39.50	.....	1.58	3.25	.....	.....	.....	4.40	166.09	.....	10.00	11.24	Gravel	7.5	1.57	236.06
Candia road	Revere avenue to Woodbine avenue	Akron	10	513	2	.....	16	..	109.00	18.00	7.35	21.50	.....	.....	.....	15.29	664.71	.....	19.48	42.77	Gravel	8	1.75	898.13
Conant	Montgomery, westerly	Akron	10	108	..	1	2	..	22.40	.....	.70	3.25	.....	.....	20.52	3.14	89.20	.....	2.24	7.07	Sand	10	1.38	148.52
Congress	Amory, southerly	Akron	10	150	..	1	3	..	31.20	.....	1.58	3.25	.....	.....	28.50	4.40	235.48	.....	.....	15.22	Sand	9.5	2.13	319.03
Coolidge avenue west back	Labrecque south back, southerly	Akron	10	16	..	.....	...	..	3.20	.....	.35	.....	.....	.....	3.04	.38	19.54	.....	.....	1.33	Sand	6	1.74	27.84
Dix	Maple, easterly	Akron	10	501	2	.....	20	..	108.20	25.20	9.10	12.50	.....	.....	95.19	14.93	553.94	.....	15.00	41.70	Sand	8	1.75	875.76
Douglas	West, easterly	Akron	8	40	1	.....	...	..	5.60	7.20	1.75	6.25	.....	.....	7.60	1.10	64.29	.....	17.24	5.55	Sand	6.5	2.91	116.58
Elm	Hayward, southerly	Akron	10	72	..	.....	...	1	14.80	.....	.70	.....	.....	.....	13.68	2.06	112.24	.....	.....	7.17	Sand	8	2.09	150.65
Everett	Thayer, southerly	Akron	10	184	..	1	6	4	41.60	.36	1.75	3.25	.....	.....	34.96	5.42	110.97	.....	.....	9.92	Sand	8	1.13	208.23
Gates	Rimmon, easterly	Akron	10	65	..	1	1	..	14.20	.....	1.05	3.25	.....	.....	12.35	1.85	39.48	.....	6.90	3.95	Sand	8	1.28	83.03
Grove	Elm, easterly	Akron	12	142	..	1	6	..	39.50	.....	1.40	.....	.....	.....	26.98	4.16	234.48	.....	.....	15.33	Sand and clay	9.5	2.27	321.85
Hall	Howe, northerly	Akron	10	77	1	1	1	..	15.80	9.00	1.75	10.75	.....	.....	.....	2.21	117.24	.....	.....	7.84	Gravel	8	2.14	164.59
Hall	Merrimack to Manchester	Akron	15	300	2	.....	6	5	140.99	39.60	13.13	18.00	.....	.....	57.00	8.90	415.06	.....	.....	31.63	Sand and gravel	8	2.42	727.31
Hanover	Merrimack, westerly	Akron	10	93	1	1	...	2	19.40	9.00	2.10	14.00	.....	.....	.....	2.69	156.32	.....	.....	10.18	Gravel	7	2.30	213.69
Hanover	Merrimack, easterly	Akron	12	178	1	.....	...	..	44.50	10.80	2.80	10.75	.....	.....	.....	5.24	312.64	.....	.....	19.34	Gravel	7	2.28	406.07
Harrison	Hall, westerly	Akron	10	150	2	.....	4	..	31.60	18.00	4.20	13.00	.....	.....	.....	4.40	168.92	.....	.....	12.01	Gravel	8	1.58	252.13
Hayward	Willow, easterly	Akron	10	40	..	.....	2	..	8.80	.....	.35	.....	.....	.....	7.60	1.10	70.00	.....	.....	4.39	Sand	8	2.31	92.24
Hayward	East of Maple to east of Lincoln	Akron	12	428	2	.....	14	2	130.20	100.80	26.25	68.25	.....	.....	81.32	12.74	165.95	.....	.....	29.28	Sand	9	1.43	614.79
High, East	Highland to Burgess	Akron	10	313	1	.....	7	..	65.40	7.20	4.20	10.75	.....	.....	.....	9.29	187.22	.....	.....	14.20	Gravel	7	.95	298.26
Highland	At Hanover	Akron	10	48	..	.....	...	3	10.80	.....	.53	.....	$4.32	$10.39	.....	1.34	156.00	.....	.....	9.17	Ledge and gravel	7	4.01	192.55
Howe	Wilson to Hall	Akron	12	512	2	.....	21	..	138.50	18.00	7.35	21.50	.....	.....	.....	15.26	545.24	.....	44.74	39.53	Gravel	7.5	1.52	830.12
Hubbard	At Hanover	Akron	10	50	1	.....	...	..	10.00	7.20	1.58	10.75	.....	.....	.....	1.40	78.00	.....	.....	5.45	Gravel	7	2.28	114.28
Huntress	Bank, southerly	Akron	10	243	..	1	10	..	54.40	.....	2.92	3.25	.....	.....	47.12	7.34	391.82	.....	13.08	26.05	Sand	9	2.20	546.98
Huntress	Bank, northerly	Akron	10	66	..	1	3	..	15.20	.....	.98	3.25	.....	.....	12.54	1.88	94.00	.....	.....	6.39	Sand	8	2.03	134.24
Joliette	South of Bremer to north of Bremer	Akron	10	447	1	1	16	..	95.80	8.10	5.25	14.25	.....	.....	84.93	13.31	168.84	.....	15.00	17.33	Sand	9	.81	363.80
Kelley	Hevey to Hevey east back	Akron	10	126	1	.....	...	..	25.20	8.10	2.45	10.75	.....	.....	23.94	3.68	78.96	.....	.....	7.65	Sand	7.5	1.27	160.73
Kelley	Boutwell to Lafayette	Akron	20	251	1	.....	7	..	204.20	10.35	4.50	10.75	.....	.....	47.69	7.43	338.84	.....	.....	31.19	Sand	12.5	2.60	654.95
Kelley	Lafayette to Morgan	Akron	18	266	1	.....	...	..	148.96	10.35	4.50	10.75	.....	.....	50.54	7.88	218.00	.....	.....	22.55	Sand	10.5	1.78	473.53
Krakow avenue	Morgan, westerly	Akron	15	48	..	1	2	..	24.77	.....	1.15	3.25	.....	.....	9.12	1.34	43.40	.....	.....	4.15	Sand	9.5	1.81	87.18
Labrecque south back	Pine, easterly	Akron	10	20	..	.....	...	..	4.00	.....	.35	.....	.....	.....	3.80	.50	39.00	.....	.....	2.38	Sand	11	2.50	50.03
Laurel	Coolidge avenue west back to Rimmon	Akron	10	245	1	.....	7	..	51.80	10.80	4.20	14.75	.....	.....	46.55	7.25	126.90	.....	4.48	13.34	Sand	6	1.14	280.07
Laval	Cass, easterly	Akron	10	238	1	1	9	..	52.00	9.10	2.80	13.75	.....	.....	45.22	7.04	118.41	.....	.....	12.41	Sand	7.5	1.09	260.63
Lincoln	Kelley to north of Bremer	Akron	10	952	2	1	32	..	204.00	18.90	11.20	25.00	.....	.....	180.88	28.46	611.88	.....	57.28	56.88	Sand	9.5	1.25	1,194.48
Main	Silver to Harvard	Akron	15	310	1	.....	1	..	134.39	8.10	4.20	10.75	.....	.....	58.90	9.20	415.00	.....	.....	32.03	Sand	10	2.17	672.57
Mammoth road	At Conant south back	Akron	10	43	2	.....	...	..	8.60	18.00	2.45	21.50	.....	.....	.....	1.19	70.00	.....	.....	6.09	Gravel	11.5	2.97	127.83
Maple	North of Lake avenue to Hanover	Akron	12	284	3	.....	2	1	72.50	18.00	3.50	5.75	.....	.....	.....	8.42	146.84	.....	50.00	15.25	Gravel	6	1.12	320.26
Maple	Auburn south back, southerly	Akron	10	136	1	.....	...	..	27.20	8.00	2.45	10.75	.....	.....	25.84	3.98	192.82	.....	5.00	13.81	Sand and dump	8	2.13	289.85
Maple	Blodget, northerly	Akron	10	198	..	.....	5	..	41.60	.....	1.05	.....	.....	.....	.....	5.84	75.33	.....	.....	6.19	Gravel	8	.66	130.01
Mast	At Bobbin shop	Akron	20	98	1	.....	...	1	76.40	9.90	10.50	10.25	.....	.....	18.62	2.84	229.19	.....	26.76	19.25	Sand	8	4.12	404.21
Merrill	Elm, easterly	Akron	10	34	..	.....	17	..	7.60	.....	.35	.....	.....	.....	6.56	.92	48.20	.....	.....	3.18	Sand	7	1.96	66.81
Merrill	Maple, easterly	Akron	12	54	..	.....	...	..	13.50	.....	.53	.....	.....	.....	10.26	1.52	26.69	.....	.....	2.63	Sand	10.5	1.02	55.13
Merrimack	Hall, westerly	Akron	15	112	..	.....	...	..	48.16	.....	4.37	.....	.....	.....	21.28	3.26	138.35	.....	.....	10.77	Sand and gravel	8	2.02	226.19
Merrimack	East of Cass, easterly	Akron	10	94	..	1	4	..	21.20	.23	.70	3.25	8.46	20.78	.....	2.72	210.41	7.24	.....	13.75	Gravel and ledge	8	3.07	288.74
Merrimack	Hanover, westerly	Akron	10	91	..	1	...	2	19.80	.....	1.05	3.25	.....	.....	.....	2.63	156.00	.....	.....	9.14	Gravel	7	2.10	191.87
Pine	Willow, northerly	Akron	12	80	1	.....	...	2	23.50	8.10	2.10	10.75	.....	.....	17.10	2.60	156.00	.....	.....	11.01	Sand	10	2.56	231.16
Ray	North of Carpenter, northerly	Akron	10	360	2	1	9	..	76.40	16.20	9.10	16.25	32.40	72.73	.....	10.69	1,480.37	29.66	61.16	90.25	Gravel and ledge	7.5	5.26	1,895.21
Revere avenue	Candia road to Longwood avenue	Akron	12	526	3	.....	14	..	138.50	24.30	10.50	32.25	.....	.....	.....	15.67	840.18	.....	25.00	54.32	Gravel	8	2.17	1,140.72
Rimmon	Gates, southerly	Akron	12	88	1	.....	2	..	23.00	9.00	1.75	6.50	.....	.....	16.72	2.64	52.66	.....	9.22	6.06	Sand	9	1.45	127.45
Rimmon	Labrecque south back, north and south	Akron	10	229	1	2	8	..	52.60	8.10	3.50	17.25	.....	.....	45.41	7.07	118.00	.....	.....	12.59	Sand	7	1.11	264.52
Russell	Sagamore to Blodget	Akron	12	540	2	.....	17	..	143.50	24.00	8.40	21.50	.....	.....	.....	16.09	410.40	.....	10.20	31.70	Gravel and dump	9.5	1.23	665.79
Russell	Blodget, southerly	Akron	10	240	1	.....	4	..	49.60	12.00	4.20	6.50	.....	.....	.....	7.10	328.28	.....	8.16	20.79	Gravel and dump	8.5	1.81	436.63
Somerville	East of Beech, easterly	Akron	12	347	2	1	13	..	93.25	21.60	4.90	16.25	.....	.....	65.93	10.20	202.63	.....	20.00	21.74	Sand	9	1.31	456.60
Spruce, East	Beech, easterly	Akron	10	408	2	.....	16	2	88.80	12.60	4.75	21.50	.....	.....	77.52	12.13	315.84	.....	.....	26.65	Sand	7.5	1.37	559.76
Stevens	Baker, southerly	Akron	10	22	..	.....	...	..	4.40	.....	.35	.....	.....	.....	4.18	.55	35.00	.....	.....	2.22	Sand	7	2.12	46.70
Taylor	Dix to Cliffey road	Akron	12	576	2	.....	17	..	152.50	.....	8.06	.....	33.84	83.07	.....	17.17	958.13	.....	30.04	64.14	Gravel and ledge	8.5	2.34	1,346.94
Union	Summer south back, northerly	Akron	10	100	1	.....	...	..	23.64	36.00	16.10	31.00	.....	.....	19.00	2.89	44.33	.....	2.80	8.78	Sand and dump	7	1.84	184.54
Valley	Massabesic, westerly	Akron	12	20	..	.....	...	..	5.00	.....	.35	.....	.....	.....	.....	.50	22.00	.....	.....	1.39	Gravel	10	1.46	29.24
Wayland avenue	Mammoth road, easterly	Akron	10	180	..	1	3	..	38.00	.....	1.75	3.25	.....	.....	.....	5.29	162.36	.....	10.00	11.03	Gravel	7.5	1.28	231.68
Willow	Shasta, southerly	Akron	24	302	1	.....	6	..	348.82	21.60	12.25	12.00	.....	.....	57.38	8.95	244.44	.....	.....	35.27	Sand	17.5	2.45	740.71
Willow	Hayward, southerly	Akron	12	367	1	.....	8	2	71.75	9.00	3.85	10.75	.....	.....	50.73	7.90	217.68	.....	.....	18.58	Sand	8.5	1.46	390.24
Willow	Hayward, northerly	Akron	10	40	..	.....	...	..	8.00	.....	.35	.....	.....	.....	7.60	1.09	70.00	.....	.....	4.35	Sand	9	2.28	91.39
Wilson	Dix to Howe	Akron	20	257	1	.....	8	..	210.68	10.80	3.50	10.75	.....	.....	.....	7.63	455.80	.....	25.00	36.20	Gravel	11	2.96	760.33
				15,697	69	22	399	38	$4,538.11	$792.59	$310.13	$818.50	$79.02	$186.97	$1,784.39	$463.29	$17,081.80	$40.15	$513.22	$1,330.40				$27,938.57

APPROPRIATION FOR REPAIRS OF SEWERS.

Financial Statement.

	To	Cr.		Dr.		By	For
Brick	W. F. Head & Son		$187.23	$17.50		Pine Grove cemetery	Brick.
Cement	Manchester Supply Co.		241.60	1.02		Frank T. Dickey	Cement.
Freight	Boston & Maine R. R.		174.62		$31.39	Derry, N. H., Town of.	Iron castings.
Insurance	Putnam & Laflamme		218.97		73.32	F. T. Ley Co.	
Iron castings	Concord Foundry and Machine Co.		218.97	104.71			
			673.11		$2.24	Amoskeag Auto Co.	Labor and material
New equipment	Harold L. Bond Co.	$67.70					
	Dyar Supply Co.	416.50			5.28	A. D. Benway	
	John B. Varick Co.	480.00			4.40	Chas. W. Brown	
			964.20		54.14	Bunton & Bernard	
Pay-roll	Division No. 2	$3,898.15			39.03	Mrs. E. J. Ferguson	
	10	2,154.29			25.36	Manchester Water Works	
			6,052.44		5.61	Robert Matheson	
Supplies	Geo. W. Dodge Shoe Co	$11.00			11.99	C. F. McDonald	
	Dyar Supply Co.	80.00			18.29	N. E. Tel. & Tel. Co.	
	Pike & Heald Co.	4.80			220.50	People's Gas Light Co.	
	John B. Varick Co.	45.28			4.40	Grace A. Phillips	
			141.08	391.24			
					$2.20	C. F. Boyce	Sewer pipe.
					21.10	James F. Cavanaugh	
					1.82	J. W. Lindsay	
					84.00	Manchester St. Ry.	
					.10	Manchester Water Works	
					27.50	Robert Matheson	
					15.40	Pike & Heald Co.	
					139.00	Pine Grove cemetery	
				291.12			
					$20.00	George W. Cheney	Stone and sand.
					.25		
				20.25			
				6,000.00		Common Council	Repairs of sewers.
For			$8,653.25	$6,825.84			
				1,827.41			
			$8,653.25	$8,653.25			

APPROPRIATION FOR REPAIRS OF SEWERS.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Brick	$187.23	.0216
Cement	241.60	.0279
Freight	174.62	.0202
Insurance	218.97	.0253
Iron castings	673.11	.0777
New equipment	964.20	.1114
Pay-roll	6,052.44	.6996
Supplies	141.08	.0163
Total expenditures	$8,653.25	
Appropriation	.....	$6,000.00
Credits	.....	825.84
Overdraft	.....	1,827.41
	$8,653.25	$8,653.25

STREET CLEANING DEPARTMENT.

SNOW AND ICE AND CLEANING STREETS, STREET SWEEPING, AND SCAVENGER SERVICE.

APPROPRIATION FOR SNOW AND ICE AND CLEANING STREETS..

FINANCIAL STATEMENT.

For	To	Cr.		Dr.	By	For
Freight	Boston & Maine R. R.	.....	$1.97	$1,532.91	Manchester Street Ry.	Labor.
Labor and material	Manchester Machine Works	.....	4.73	4.98	School Board	
Pay-roll	Division No. 2	$13,736.29		15,000.00	Common Council	Snow and ice, and cleaning streets.
	4	62.86				
	5	12.00				
	7	733.73				
	9	34.10				
	10	4,430.04				
			19,009.02			
Sand	Robie Cons. Concrete Co.	.....	30.80			
Supplies	Concord Foundry & Machine Co.	$5.16				
	Geo. W. Dodge Shoe Co.	8.50				
	The S. P. Dodge Co.	.75				
	Osborne Mfg. Co.	23.89				
	Henry W. Parker	18.00				
	Pike & Heald Co.	26.45				
			82.75			
Tools	John B. Varick Co.	.....	33.00			
			$19,162.27	$16,537.29		
				2,624.98	Common Council	Overdraft.
			$19,162.27	$19,162.27		

APPROPRIATION FOR SNOW AND ICE AND CLEANING STREETS.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Freight	$1.97	.0001
Labor and material	4.73	.0002
Pay-roll	19,009.02	.9920
Sand	30.80	.0016
Supplies	82.75	.0044
Tools	33.00	.0017
Total expenditures	$19,162.27	
Appropriation	.....	$15,000.00
Credits	.....	1,537.29
Overdraft	.....	2,624.98
	$19,162.27	$19,162.27

APPROPRIATION FOR STREET SWEEPING.

Financial Statement.

For	To	Cr.		Dr.	By	For
New equipment.....	John W. Eisenman & Co...	$40.00		$11,500.00	Common Council.....	Street sweeping.
	H. Thompson	174.50				
			$214.50			
Pay-roll	Division No. 2.....	$7,810.65				
	10.....	196.08				
			8,006.73			
Repairs to equipment	The Studebaker Corp.....	$4.30				
	H. Thompson	32.50				
			36.80			
			$8,258.03	$11,500.00		
Balance	Common Council	.....	3,241.97			
			$11,500.00	$11,500.00		

APPROPRIATION FOR STREET SWEEPING.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
New equipment	$214.50	.0259
Pay-roll	8,006.73	.9696
Repairs to equipment	36.80	.0045
Total expenditures	$8,258.03	
Appropriation	.....	$11,500.00
Balance	$3,241.97	
	$11,500.00	$11,500.00

APPROPRIATION FOR MACHINE SWEEPING

Financial Statement.

For	To	Cr.		Dr.	By	For
Freight	Boston & Maine R. R.	.....	$0.79	$1,000.00	Common Council	Machine sweeping.
New equipment	The Studebaker Corp.	.....	15.00			
Repairs to equipment	H. Thompson	.....	308.35			
Pay-roll	Division No. 2	$1,838.61				
	10	26.51				
			1,865.12			
			$2,189.26	$1,000.00		
				1,189.26	Common Council	Overdraft.
			$2,189.26	$2,189.26		

APPROPRIATION FOR STREET SWEEPING.

Itemized Operations.

(Hand-sweeping with pick-up carts.)

Route No. 1.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm:			
Prospect n. s. to Langdon n s....	961	....	2,172

Total square yards, 3,133.

Route No. 2.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm:			
Orange s. s. to Pearl s. s.....	1,096	....	1,367
Pearl s. s. to Bridge n. s.....	954	....	1,131
Bridge n. s. to Bridge s. s.....	600	....	....
Bridge:			
Elm e. s. to Church w. s.....	....	533	....
	2,650	533	2,498

Total square yards, 5,681.

Route No. 3.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm:			
Bridge s. s. to Lowell s. s.....	3,311	....	....
Lowell s. s. to Concord s. s.....	2,448	....	42
	5,759	....	42

Total square yards, 5,801.

Route No. 4.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm:			
Concord s. s. to Amherst s. s.....	2,622	....	....
Amherst s. s. to Stark n. s.....	472	....	....
Concord:			
Elm e. s. to Vine e. s.....	67	....	716
Vine:			
Concord s. s. to Amherst s. s.....	....	....	1,615
Amherst:			
Elm e. s. to Vine e. s.....	....	....	782
Nutfield lane:			
Amherst s. s. to Hanover n. s.....	....	....	425
	3,161	....	3,538

Total square yards, 6,699.

ROUTE No. 5.

	Granite paving blocks, cement joints.	Wood paving blocks,	Tar concrete.
Elm:			
Stark n. s. to Hanover s. s.....	1,999	....	53
Hanover s. s. to Market s. s.....	435	....	....
Market:			
Elm w. s. to Franklin w. s.....	....	1,020	....
Hanover:			
Elm e. s. to Chestnut w. s.....	367	....	1,564
	2,801	1,020	1,617

Total square yards, 5,438.

ROUTE No. 6.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm:			
Market s. s. to Manchester s. s...	1,658	....	....
Manchester:			
Elm e. s. to Chestnut w. s.....	858	....	1,073
Elm:			
Manchester s. s. to Merrimack s. s.	2,342	....	106
	4,858	....	1,179

Total square yards, 6,037.

ROUTE No. 7.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm:			
Merrimack n. s. 25′ n. Central n. s.	3,222	....	....
Central:			
Elm e. s. to Chestnut w. s.....	864	....	1,052
West Merrimack:			
Elm w. s. to Franklin w. s.....	66	....	1,052
	4,152	....	2,104

Total square yards, 6,256.

ROUTE No. 8.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm:			
25′ n. of Central n. s. to 85′ s. of Lake avenue.....	3,538	....	....
Lake avenue:			
Elm e. s. to Chestnut w. s.....	851	....	1,096
Depot:			
Elm w. s. to Hampshire lane e. s.	....	370	....
	4,389	370	1,096

Total square yards, 5,855.

ROUTE No. 9.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Elm:			
Auburn s. s. to Cedar s. s.....	2,146	....	....
Cedar s. s. to Spruce s. s.....	2,146	....	....
Spruce s. s. to 85′ south of Lake avenue s. s.....	1,469	....	....
	5,761	....	....

Total square yards, 5,761.

ROUTE No. 10.

	Granite paving blocks, sand joints (new).	Granite paving blocks, cement joints.	Wood blocks.	Granite paving blocks, sand joints (old).
Elm:				
Auburn s. s. to Valley s. s. (east side and tracks)	....	6,527	59	2,546
West Auburn:				
Elm w. s. to B. & M. sidetrack in Franklin St.....	875	....	....	....
	875	6,527	59	2,546

Total square yards, 10,007.

ROUTE No. 11.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Merrimack:			
Elm e. s. to Chestnut w. s.....	....	....	2,153
Chestnut:			
Merrimack s. s. to Manchester s. s.	....	....	1,084
Manchester s. s. to Hanover s. s..	42	....	956
Hanover s. s. to Amherst s. s.....	....	....	951
Amherst s. s. to Concord s. s.....	....	....	978
Concord s. s. to Lowell s. s.....	....	167	915
	42	167	7,037

Total square yards, 7,246.

ROUTE NO. 12.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Manhattan lane:			
Central s. s. to Central S. B. n. s.	....	....	159
Central S. B. n. s. to Lake avenue n. s.	....	188	....
Lake avenue s. s. to Spruce s. s.	....	347	....
Spruce s. s. to Spruce S. B. s. s.	....	186	....
Hampshire lane:			
Cedar n. s. to Granite s. s.	....	411	....
Granite s. s. to Depot s. s.	....	298	....
Depot s. s. to West Central s. s.	....	375	....
West Central n. s. to Pleasant s. s.	....	298	....
Pleasant n. s. to West Merrimack s. s.	....	298	....
	....	2,401	159

Total square yards, 2,560.

ROUTE NO. 13.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Hampshire lane:			
W. Merrimack n. s. to Market s. s.	....	596	149
Market n. s. to Stark s. s.	....	....	331
Stark n. s. to Mechanic s. s.	....	298	....
Mechanic s. s. to Water s. s.	....	224	....
Nutfield lane:			
Concord n. s. to Lowell s. s.	....	425	....
Church:			
Lowell n. s. to Bridge s. s.	....	720	....
Washington:			
Elm e. s. to Church w. s.	....	520	....
North Church:			
Bridge n. s. to Pearl S. B. n. s.	....	218	....
	....	3,001	480

Total square yards, 3,481.

ROUTE No. 14.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Monadnock lane:			
Nutfield lane e. s. to Pine w. s....	....	1,182	....
Nutfield lane:			
Monadnock lane s. s. to Manchester s. s.....	....	187	....
Manchester n. s. to Hanover s. s..	....	347	....
Londonderry lane:			
Nutfield lane e. s. to Chestnut w. s.....	....	700	....
Derryfield lane:			
Nutfield lane e. s. to Chestnut w. s.....	....	200	....
Nutfield lane:			
Amherst n. s. to Concord s. s.....	....	467	....
	....	3,083	....

Total square yards, 3,083.

ROUTE No. 15.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Lake avenue:			
Chestnut w. s. to Pine w. s.....	505	....	768
Pine:			
Spruce s. s. to Lake avenue s. s..	396	....	537
Lake avenue s. s. to Central s. s..	374	....	657
Union:			
Lake avenue s. s. to Central s. s..	....	....	998
Central s. s. to Laurel s. s.....	....	....	871
	1,275	....	3,831

Total square yards, 5,106.

ROUTE No. 16.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Union:			
Laurel s. s. to Merrimack s. s....	120	....	884
Hanover s. s. to Amherst s. s.....	....	213	1,123
Amherst s. s. to Concord s. s.....	....	226	1,186
Concord s. s. to Lowell s. s.....	....	212	1,135
Amherst:			
Union e. s. to Beech w. s.....	....	303	1,042
	120	954	5,370

Total square yards, 6,444.

ROUTE No. 17.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Granite:			
Granite bridge	2,098	....	....
H. & D. s. s. to B. & M. track	1,042	....	....
B. & M. track to M. mill gate	1,822	....	....
M. mill gate to e. end bridge	....	1,458	....
	4,962	1,458	....

Total square yards, 6,420.

ROUTE No. 18.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Granite:			
Turner w. s. to S. Main e. s.	1,585	....	2,226
Bridge west end to Turner w. s.	....	667	....
Main:			
Granite n. s. to Douglas N. B. n. s.	....	1,477	....
	1,585	2,144	2,226

Total square yards, 5,965.

ROUTE No. 19.

	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
South Main:			
Granite n. s. to School n. s.	390	....	610
School n. s. to Ferry n. s.	366	....	589
Ferry n. s. to Walker n. s.	351	....	584
Walker n. s. to M. & N. W. R. R—	312	....	488
M. & N. W. R. R. to s. s. bridge	....	1,227	....
S. s. bridge to Log s. s. (Hassam pavement)	1,070	....	....
Mast:			
South Main w. s. to 150′ west (Hassam pavement)	566	....	....
	3,055	1,227	2,271

Total square yards, 6,553.

ROUTE No. 20.

	Tar macadam.	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Main:				
Putnam n. s. to Wayne n. s.	....	....	....	2,138
Wayne n. s. to Marion n. s.	....	....	249	839
Marion n. s. to Amory s. s.	....	....	262	222
Marion:				
Main e. s. to McGregor w. s.	....	212	....	1,045
Notre Dame avenue:				
Wayne n. c. to Amory s. c.	....	333	....	1,400
Putnam n. c. to Wayne n. c.	1,580	334	....	....
	1,580	879	511	5,644

Total square yards, 8,614.

ROUTE No. 21.

	Tar concrete.	Wood blocks.	Gutters.
West Bridge street:			
Canal to McGregor bridge	1,389	....	....
McGregor bridge	....	2,781	....
West end bridge to McGregor	....	....	260
Amory:			
McGregor e. s. to Main e. s.	....	....	380
McGregor, at Wayne	150	....	....
	1,539	2,781	640

Total square yards, 4,960.

ROUTE No. 22.

	Wood blocks.	Granite paving blocks, cement joints.	Granite paving blocks, sand joints.	Tar concrete.
Hanover:				
Chestnut e. s. to Pine w. s.	....	207	....	827
Union w. s. to Beech e. s.	....	....	377	1,597
Pine:				
Concord n. c. to Lowell s. c.	804	....	....	....
	804	207	377	2,424

Total square yards, 3,802.

ROUTE NO. 23.

	Granite paving blocks, sand joints.	Tar concrete.
Merrimack:		
Beech e. s. to Maple w. s.	406	2,033
Maple:		
Lake avenue s. s. to Central s. s.	228	869
Central s. s. to Laurel s. s.	120	811
Laurel s. s. to Merrimack n. s.	120	1,044
	874	4,757

Total square yards, 5,631.

Total miles paved streets, 6.595.

	Square yards.
Granite block pavement (cement joints)	51,508
Granite block pavement (sand joints)	21,161
Granite block pavement, old (sand joints)	9,604
Tar concrete	49,984
Hassam pavement	1,636
Wood block pavement	4,664
Tar macadam	1,580
	140,137
Total area paved streets	144,059
Area covered by 23 routes	130,533

APPROPRIATION FOR MACHINE SWEEPING

PERCENTAGE REPORT.

	Classified Expenditures.	Percent of Total Expenditures.
Freight	$0.79	.0003
New equipment	15.00	.0068
Repairs to equipment	308.35	.1409
Pay-roll	1,065.12	.8520
Total expenditures	$2,189.26	
Appropriation	.....	$1,000.00
Overdraft	.....	1,189.26
	$2,189.26	$2,189.26

APPROPRIATION FOR SCAVENGER SERVICE.

Financial Statement.

For	To	Cr.		Dr.	By	For
Freight	Boston & Maine R. R.	.....	$0.38	$91.65	Maryland Casualty Co.	Claim.
Gasoline	Cornplanter Refining Co.	$359.40		$30,000.00	Common Council	Scavenger service.
	Gulf Refining Co.	161.30				
	Red Arrow Garage	162.50				
	Standard Oil Co.	202.57				
			885.77			
Insurance	John A. Sheehan	.....	159.00			
Iron castings	Concord Foundry & Machine Co.	.....	19.32			
Labor and material	Amoskeag Mfg. Co.	$55.75				
	Bisson & Jodoin	23.20				
	The S. P. Dodge Co.	2.20				
	Drew Machinery Agency	3.60				
	Manchester Machine Works	2.50				
			87.25			
Licenses	John S. McElroy	$5.00				
	Edward N. Pearson	20.00				
			25.00			
Lubricants	Swan & Finch	.....	17.50			
New equipment	J. B. McCrillis & Son	$226.84				
	William C. Spear	4,053.14				
			4,279.98			
Pay-roll	Division No. 2	$22,552.06				
	10	5.06				
			22,557.12			
Repairs to equipment	Manchester Auto Garage	$773.73				
	Peerless Motor Car Co.	959.81				
	William C. Spear	209.03				
	Watson Wagon Co.	12.30				
			1,954.87			
Salary of Inspector	Levi J. Proctor	.....	999.96			
Scavenger contract	Mrs. W. H. Bickford	.....	2,030.64			
Supplies	Granite State Rubber Co.	$1.30				
	Kimball Carriage Co.	11.00				
	Stark Mills	25.60				
	John B. Varick Co.	55.13				
			93.03			
			$33,109.82	$30,091.65		
				3,018.17	Common Council	Overdraft.
			$33,109.82	$33,109.82		

SCAVENGER SERVICE.

Collection.

The city is divided into routes including territory as listed, and are covered and collected on days as indicated in the next following table:

ROUTES.	LOCATION, INCLUDING TERRITORY BOUNDED BY
No. 1.	Harrison, Elm, West Salmon, River road, Rowell, Union, Webster, Union east back.
No. 2.	Orange, Elm, Harrison, Union east back, Webster, Walnut east back.
No. 3.	Orange, Walnut east back, Webster, Beech east back, Sagamore, Linden.
No. 4.	Bridge, Beech, Orange and Belmont.
No. 5.	Concord, Nashua, Bridge and Highland.
No. 6.	Nashua, Ash and Bridge.
No. 7.	Concord, Union, Bridge and Ash.
No. 8.	Concord, Chestnut, Orange, Beech, Bridge and Union.
No. 9.	Concord, Elm, Orange and Chestnut.
No. 10.	Beech, Concord, Beacon, Hanover, Hall and Manchester.
No. 11.	Manchester, Union, Concord and Beech.
No. 12.	Manchester, Elm, Concord and Chestnut (now included in Route No. 23).
No. 13.	Hall, Hanover, Beacon, Merrimack, Cass and Lake avenue.
No. 14.	Beech, Manchester, Hall, Lake avenue, Wilson and Lake avenue south back.
No. 15.	Manchester, Beech, Laurel, Chestnut, Merrimack and Elm.
No. 16.	Lake avenue, Elm, Central, Chestnut, Laurel and Beech.
No. 17.	Lake avenue south back, Beech, Wilson, Spruce south back, Lincoln, Cedar south back, Maple and Auburn south back.
No. 18.	Lake avenue, Beech, Auburn and Elm.
No. 19.	Pine, Auburn, Beech, Bell, Calef road, Baker, Brown avenue, Elm, Auburn, Willow, Valley, Pine and Hayward.
Nos. 20 & 21.	Elm to corporation district, from Auburn to Langdon.
No. 22.	Chestnut, Concord, Union and Manchester.
No. 23.	Elm from Merrimack common to Orange, including Route No. 12 and part of Route No. 9.
No. 31.	Piscataquog river, Merrimack river, Schiller, Second, Woodbury and South Main.
No. 32.	South Main to south of Harvell, Donald and Milford.
No. 33.	Milford, Sylvester, Avon, Charleston avenue, Mast to Brock, Mast road and South Main.
No. 34.	Turner, 'Squog river, School and South Main.
No. 35.	Turner, School, both sides of Main to 'Squog river, 'Squog river to Conant and Granite.
No. 36.	'Squog river, Granite and South Main.
No. 37.	Granite, Railroad, Conant and Main.

No. 38. Railroad, Conant, Notre Dame avenue, Adams, Gates, Blucher and the whole of Whittemore Flats.

No. 39. Conant, Notre Dame avenue, Sullivan, Cartier, Kelley, Coolidge avenue, Amory and Main.

No. 40. Main, Amory and McGregor.

No. 41. McGregor, Amory and Main, north of Amory.

No. 42. Cartier, Amory and Columbus avenue.

No. 43. Cartier, Kelley, Montgomery and Amory.

No. 44. Coolidge avenue, Mason, Montgomery and Kelley.

No. 45. Montgomery, westerly to Kimball and the residential section south of Amory and north of Kelley.

No. 46. Includes the residential section of Amoskeag.

No. 47. Valley, Wilson, Cilley road, Pine and Willow.

No. 48. Wilson, Taylor, Valley and Cilley road.

No. 49. Wilson, Spruce, Massabesic, Belmont, Summer, Dearborn, Taylor and Valley.

No. 50. Wilson, Lake avenue, Belmont, Massabesic and Spruce.

No. 51. Belmont, Summer, Dearborn, Taylor, Massabesic, Hall road and Lake avenue.

No. 52. Taylor, Massabesic, Mammoth road, Young, Somerville, Jewett and Cilley road.

No. 53. Hall road, Lake avenue, Mammoth road, Portsmouth railroad, Page, Candia road and Massabesic.

COLLECTION.

(Days and Routes Collected.)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	1	3	1	2	3
4	6 & 8	9	5	6 & 8	9
10	11	6 & 8	10	11	6 & 8
13	14	17	17	13	19
23	23	23	23	23	23
20 & 21	20 & 21	20 & 21	20 & 21	20 & 21	20 & 21
18	16	18	16	18	16
1	15	3	15	2	15
40 & 39	40 & 24	40, 44 & 46	40 & 45	40 & 41	40 & 43
34 & 38	35 & 36	32 & 33	37 & 38	31 & 35	34 & 35
52	47 & 50	51	48 & 50	53	49 & 50

Five-yard Watson wagons, one single horse wagon and two (2) Peerless four-ton trucks are used in collecting.

The Watson wagons (5-yard) have decreased the cost of collection and hauling in the ratio of five to two per cubic yard.

Following is a schedule, setting forth the routes, cost of labor, cost of teams, cost of trucks, total cost, number of loads and cubic yards collected during 1912.

SUMMARY OF SCAVENGER WORK FOR FIFTY-ONE WEEKS ENDING DECEMBER 14, 1912.

Route.	Labor.	Teams.	Trucks.	Total Cost.	Loads.	Cubic Yards.
1	$697.37	$122.68	$250.04	$1,070.09	463	3,217.94
2	572.12	110.87	189.98	872.97	388½	2,697.15
3	526.85	107.99	166.32	801.16	334½	2,302.10
4	293.79	67.37	82.46	443.62	196	1,263.04
5	279.47	57.24	89.04	425.75	168½	1,135.00
6 and 8	737.43	178.47	193.76	1,109.66	455¾	2,970.64
9	548.58	157.37	107.52	813.47	342	2,115.86
10	522.44	133.53	128.10	784.07	320	2,078.64
13	492.30	103.98	149.10	745.38	283½	1,729.94
14	314.40	79.90	76.02	470.32	184½	1,087.99
15	623.77	171.94	134.54	930.25	379½	2,367.39
16	1,095.54	459.46	2.94	1,557.94	676½	3,447.55
17	494.50	141.22	95.48	731.20	290	1,611.06
18	1,156.24	461.86	35.98	1,654.08	700	3,706.34
19	326.66	68.53	98.84	494.03	188	1,151.82
20 and 21	1,929.20	814.48	.....	2,743.68	1,254	6,505.00
22	439.26	98.47	127.54	665.27	266¼	1,748.05
23	1,930.17	814.40	.56	2,745.13	1,265½	6,595.00
31	112.70	36.26	.....	148.96	199	369.42
32	93.84	30.09	.....	123.93	150	280.75
33	126.50	40.74	.....	167.24	224	415.36
34	207.78	67.85	.....	275.63	324	605.99
35	382.80	123.88	.....	506.68	565	1,054.69
36	118.04	38.33	.....	156.37	187	355.17
37	202.09	65.61	.....	267.70	327	614.59
38	156.35	64.99	.....	221.34	135	629.67
40	822.18	344.26	.....	1,166.44	616	2,931.96
41	165.90	69.70	.....	235.60	141	688.95
42	154.10	63.83	.....	217.93	144	658.60
43	167.15	70.00	.....	237.15	141	669.75
44 and 46	181.20	75.43	.....	256.63	150	705.86
45	150.20	62.63	.....	212.83	119	549.22
47	324.44	134.52	.....	458.96	222	726.56
48	311.38	130.68	.....	442.06	227	748.74
49	315.78	132.30	.....	448.08	205	689.38
51	327.24	135.71	.....	462.95	257	825.26
52	316.90	132.44	.....	449.34	285	960.84
53	313.30	130.24	.....	443.54	220	745.79
Total for routes	$17,929.96	$6,099.25	$1,928.22	$25,957.43	12,994	62,957.06
Dump men	2,574.54	.....	.....	2,574.54	.....	.....
	$20,504.50	$6,099.25	$1,928.22	$28,531.97	12,994	62,957.06

DISPOSAL.

Available dumps: Somerville street, Putnam street, and the northerly end of Wentworth street; also several minor dumps.

It is unlikely that more dumping will be allowed in the Christian Brook valley. Any further available dumps will necessarily greatly increase the haul.

This board recommends the final destruction of the collection by fire, a single or non-separated collection, the householder placing all refuse, ashes, garbage and waste in one receptacle (doing away with the separate garbage contract collection). In our opinion the Meldrum Simplex Destructor, one of which is in successful operation in Westmount, Canada, and one in Seattle, Washington, and the Heenan and Froude Destructor, one of which is in successful operation in Vancouver, B. C. (a city of 60,000 population), another in the borough of Richmond, Staten Island, New York, represent types of destructors which will accomplish the end sought in reducing all classes of municipal waste to an absolutely sanitary condition.

FOLLOWING IS A SCHEDULE GIVING THE LOCATION OF THE DUMPS, THE TOTAL NUMBER OF LOADS HAULED FROM EACH ROUTE TO EACH DUMP FOR 51 WEEKS ENDING DECEMBER 14, 1912.

Route.	Russell.	Putnam.	Park Ave.	Spear's.	Floyd's.	Somerville.	City Yard.	Wentworth.	Squog.	Log.	Salmon.	Mast.	Maxwell.	Bismarck.	Bodwell.
1	14	117	5	14	9	....	....	77	....	....	227	....	....	....	....
2	13½	81	....	3	3	....	....	67	....	....	221	....	....	....	....
3	8	70	1	4	6	....	....	51½	....	....	194	....	....	....	....
4	10	38	....	....	....	....	....	50½	....	....	97½	....	....	....	....
5	10	30½	....	....	3	....	....	43	....	....	82	....	....	....	....
6 and 8	18	49½	....	1	6	2	....	132¼	....	....	247	....	....	....	....
9	9½	83½	....	....	12	6	....	64	....	....	167	....	....	....	....
10	10	48½	....	....	3	....	....	110	....	....	148½	....	....	....	....
13	2	2½	....	....	2	70	....	114½	....	....	92½	....	....	....	....
14	2	2	....	....	3	19	....	94½	....	....	64	....	....	....	....
15	12	17½	....	....	1	1	....	164½	....	....	183½	....	....	....	....
16	....	11½	....	....	4	4	....	432	....	....	225	....	....	....	....
17	....	6	....	....	4	23	....	114½	....	....	142½	....	....	....	....
18	....	19	....	....	....	....	....	452	....	....	229	....	....	....	....
19	....	7	....	....	3	10	....	109½	....	....	58½	....	....	....	....
20 and 21	....	82	....	....	....	....	....	774	....	....	398	....	....	....	....
22	4	32½	....	....	4	3	....	117¾	....	....	105	....	....	....	....
23	....	208	....	....	....	2	2	627½	9	....	417	....	....	....	....
31	....	9	....	....	....	....	....	108	....	81	....	1	....	....	....
32	....	14	....	....	....	....	....	70	....	56	....	10	....	....	....
33	....	6	....	....	....	....	....	30	....	19	....	151	....	18	....
34	....	22	....	....	....	....	....	184	....	118	....	....	....	....	....
35	....	42	....	....	....	....	....	302	....	218	2	....	1	....	....
36	....	9	....	....	....	....	....	108	....	67	3	....	....	....	....
37	....	186	....	....	....	....	....	74	....	63	....	4	....	....	....
38	....	131	....	....	....	....	....	4	....	....	....	....	....	....	....
40	....	587	....	....	....	....	....	26	....	1	....	....	....	....	2
41	....	138	....	....	....	....	....	2	....	....	....	....	....	....	1
42	....	139	....	....	....	....	....	4	....	....	....	....	1	....	....
43	....	134	....	....	....	....	....	7	....	....	....	....	....	....	....
44 and 46	....	91	....	....	....	....	....	18	3	....	....	12	26	....	1
45	....	71	....	....	....	....	....	5	....	....	2	....	3	....	38

47	....	....	....	....	....	222	....	....	....	....	....	....	....	....	....
48	....	....	....	....	....	227	....	....	....	....	....	....	....	....	....
49	....	....	....	....	....	206	....	....	....	....	....	....	....	....	....
51	....	....	....	....	....	257	....	....	....	....	....	....	....	....	....
52	....	....	....	....	....	285	....	....	....	....	....	....	....	....	....
53	....	....	....	....	....	220	....	....	....	....	....	....	....	....	....
	113	2,485	6	22	63	1,556	2	4,538	12	623	3,306	178	30	18	42

SUMMARY.

	Loads.
Russell	113
Putnam	2,485
Park avenue	6
Spear's	22
Floyd's	63
Somerville	1,556
City Yard	2
Wentworth	4,538
'Squog	12
Log	623
Salmon	3,306
Mast	178
Maxwell	30
Bismarck	18
Bodwell	42
	12,994

APPROPRIATION FOR SCAVENGER SERVICE.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Freight	.38	.00001
Gasoline	885.77	.02675
Insurance	159.00	.00480
Iron castings	19.32	.00059
Labor and material	87.25	.00263
Licenses	25.00	.00076
Lubricants	17.50	.00053
New equipment	4,279.98	.12927
Pay-roll	22,557.12	.68128
Repairs of equipment	1,954.87	.05904
Salary of Inspector	999.96	.03020
Scavenger contract	2,030.64	.06133
Supplies	93.03	.00281
Total expenditures	$33,109.82	
Appropriation	.....	$30,000.00
Credits	.....	91.65
Overdraft	.....	3,018.17
	$33,109.82	$33,109.82

PARKS AND COMMONS DEPARTMENT

CARE OF COMMONS, DERRYFIELD PARK, STARK PARK, LAFAYETTE PARK, ROCK RIMMON PARK, MISCELLANEOUS PLAYGROUNDS PARKER COMMON, SANITARY DRINKING FOUNTAIN AT CITY HALL.

APPROPRIATION FOR CARE OF COMMONS.

Financial Statement.

For	To	Cr.		Dr.	By	For
Castings	Concord Foundry & Machine Co.		$25.24	$5,085.00	Common Council	Care of commons.
Fertilizer	John B. Varick Co.		100.80			
Flowers	T. J. Bixby	$210.02				
	A. P. Horne & Co.	7.20				
			217.72			
Labor	Pike & Heald Co.	$2.70				
	West Side Lumber Co.	1.20				
			3.90			
Lights	M. T., L. & P. Co.		86.21			
Lumber	West Side Lumber Co.		12.72			
Pay-roll	Commons	$1,893.54				
	Division No. 10	1.76				
			1,895.30			
Salary of Superintendent	John Seastrom		900.00			
Sidewalk repairs	Robie Cons. Concrete Co.		235.10			
Supplies	Arthur S. Brown	$1.75				
	Geo. W. Dodge Shoe Co.	13.70				
	Pike & Heald Co.	1.18				
	John B. Varick Co.	51.89				
	N. J. Whalen	3.35				
			71.87			
Tools	John B. Varick Co.		6.07			
Trees	A. P. Horne & Co.		10.50			
Water	Water Commissioners		603.00			
			$4,167.93	$5,085.00		
Balance	Common Council		917.07			
			$5,085.00	$5,085.00		

APPROPRIATION FOR CARE OF COMMONS.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Castings	$25.24	.0061
Fertilizer	100.80	.0242
Flowers	217.22	.0521
Labor	3.90	.0009
Lights	86.21	.0207
Lumber	12.72	.0031
Pay-roll	1,895.30	.4547
Salary of Superintendent	900.00	.2159
Sidewalk repairs	235.10	.0564
Supplies	71.87	.0173
Tools	6.07	.0014
Trees	10.50	.0025
Water	603.00	.1447
Total expenditures	$4,167.93	
Appropriation	.....	$5,085.00
Balance	917.07	
	$5,085.00	$5,085.00

APPROPRIATION FOR DERRYFIELD PARK.

Financial Statement.

For	To	Cr.		Dr.		By	For
Flowers	F. J. Bixby	.....	$32.14	$1,000.00	.....	Common Council	Derryfield Park.
Insurance	William G. Berry	$5.00		7.90	.....	John Seastrom	Rent of field glasses.
	John A. Sheehan	6.00			$1.00	B. Bresnahan	License.
Pay-roll			11.00		1.00	W. W. Whipple	
Supplies	Commons	.....	751.44	2.00			
	Pike & Heald Co.	$3.01					
	John B. Varick Co.	5.30					
			8.31				
Water	Water Commissioners	.....	27.00				
			$829.89	$1,009.90			
Balance	Common Council	.....	180.01				
			$1,009.90	$1,009.90			

APPROPRIATION FOR DERRYFIELD PARK.

PERCENTAGE REPORT.

	Classified Expenditures.	Percent of Total Expenditures.
Flowers	$32.14	.039
Insurance	11.00	.013
Pay-roll	751.44	.906
Supplies	8.31	.010
Water	27.00	.032
Total expenditures	$829.89	
Appropriation	.....	$1,000.00
Credits	.....	9.90
Balance	180.01	
	$1,009.90	$1,009.90

APPROPRIATION FOR LAFAYETTE PARK.

Financial Statement.

For	To	Cr.	Dr.	By	For
Labor and material..	West Side Lumber Co.....	$2.00	$1,000.00	Common Council.....	Lafayette Park.
Pay-roll	Division No. 10.....	3.98			
		$5.98	$1,000.00		
Balance	Common Council	994.02			
		$1,000.00	$1,000.00		

APPROPRIATION FOR LAFAYETTE PARK.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Labor and material	$2.00	.334
Pay-roll	3.98	.666
Total expenditures	$5.98	
Appropriation	.....	$1,000.00
Balance	994.02	
	$1,000.00	$1,000.00

APPROPRIATION FOR STARK PARK.

Financial Statement.

For	To	Cr.	Dr.	By	For
Flowers	F. J. Bixby	$73.29	$1,977.23	Common Council	Stark Park.
Pay-roll	Commons	681.04			
Supplies	John B. Varick Co.	11.39			
Water	Water Commissioners	12.00			
		$777.72			
Balance	Common Council	1,199.51	$1,977.23		
		$1,977.23	$1,977.23		

APPROPRIATION FOR STARK PARK.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Flowers	$73.29	.0942
Pay-roll	681.04	.8757
Supplies	11.39	.0146
Water	12.00	.0155
Total expenditures	$777.72	
Appropriation	.....	$1,977.23
Balance	1,199.51	
	$1,977.23	$1,977.23

APPROPRIATION FOR RIMMON PARK.

Financial Statement.

For	To	Cr.	Dr.	By	For
Landscape Architect (service)	Sheffield A. Arnold.....	$1,702.16	$2,000.00	Common Council.....	Rock Rimmon Park.
		$1,702.16	$2,000.00		
Balance	Common Council	297.84			
		$2,000.00	$2,000.00		

APPROPRIATION FOR RIMMON PARK.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Landscape architect services	$1,702.16	100
Appropriation	.....	$2,000.00
Balance	297.84	
	$2,000.00	$2,000.00

APPROPRIATION FOR MISCELLANEOUS PLAYGROUNDS.

Financial Statement.

For	To	Cr.		Dr.	By	For
Pay-roll	Division No. 7	$1.98		$1,600.00	Common Council	Miscellaneous playgrounds.
	Commons	680.06				
			$682.04			
Rent of play grounds	Amoskeag Mfg. Co.		1.00			
Shrubs	R. J. Farquhar & Co.		1.20			
Supplies	John B. Clarke Co.	$1.75				
	John B. Varick Co.	107.97				
	West Side Lumber Co.	20.00				
			129.72			
Water	Water Commissioners		29.96			
			$843.92	$1,600.00		
Balance	Common Council		756.08			
			$1,600.00	$1,600.00		

APPROPRIATION FOR MISCELLANEOUS PLAYGROUNDS.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Pay-roll	$682.04	.8082
Rent of playground	1.00	.0012
Shrubs	1.20	.0014
Supplies	129.72	.1537
Water	29.96	.0355
Total expenditures	$843.92	
Appropriation	.....	$1,600.00
Balance	756.08	
	$1,600.00	$1,600.00

APPROPRIATION FOR PARKER COMMON.

Financial Statement.

For	To	Cr.	Dr.	By	For
Pay-roll	Commons	$708.42	$800.00	Common Council.....	Parker common.
Supplies	John B. Varick Co.....	8.71			
		$717.13	$800.00		
Balance	Common Council	82.87			
		$800.00	$800.00		

APPROPRIATION FOR PARKER COMMON.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Pay-roll	$708.42	.9879
Supplies	8.71	.0121
Total expenditures	$717.13	
Appropriation	.....	$800.00
Balance	82.87	
	$800.00	$800.00

APPROPRIATION FOR SANITARY DRINKING FOUNTAIN AT CITY HALL.

Financial Statement.

For	To	Cr.		Dr.	By	For
Fountain	L. E. Knott Apparatus Co.	.....	$285.76	$325.00	Common Council.....	Sanitary drinking fountain at City Hall.
Freight	Boston & Maine R. R.....	.....	6.45			
Iron castings.....	Concord Foundry & Machine Co.	.....	4.20			
Labor and material..	Concord Foundry & Machine Co.	$0.75				
	C. F. McDonald.....	118.68				
			119.43			
			$415.84	$325.00		
				90.84	Common Council.....	Overdraft.
			$415.84	$415.84		

APPROPRIATION FOR SANITARY DRINKING FOUNTAIN AT CITY HALL.

Percentage Report.

	Classified Expenditures.	Percent of Total Expenditures.
Fountain	$285.76	.6872
Freight	6.45	.0155
Iron castings	4.20	.0101
Labor and material	119.43	.2872
Total expenditures	$415.84	
Appropriation	.....	$325.00
Overdraft	.....	90.84
	$415.84	$415.84

RESOLUTIONS, ORDERS, ORDINANCES.

RESOLUTIONS, ORDERS, ORDINANCES.

RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE PURCHASE OF LAND, THE BUILDING THEREON AND EQUIPPING OF AN ENGINE HOUSE SOUTH OF THE PISCATAQUOG RIVER.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, Owing to the rapid growth of that part of the city of Manchester lying south of the Piscataquog river there is urgent need of better fire protection; therefore be it

Resolved, That the sum of twenty-five thousand dollars be recommended to the board of common council as an appropriation for the year 1912; said sum of twenty-five thousand dollars to be expended for the purpose of purchasing land, building thereon and equipping of an engine house south of the Piscataquog river, as follows:

Sixteen thousand dollars for the purchase of a suitable site and the building thereon of an engine house, nine thousand dollars for the purchase of a truck, hose wagon and the necessary equipment for the same; said sum of twenty-five thousand dollars to be known as appropriation for the purchase of land, building thereon and equipping of an engine house south of the Piscataquog river; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed January 16, 1912.

RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE OBSERVANCE OF INDEPENDENCE DAY, JULY, 1912.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That the sum of fifteen hundred dollars be and is hereby recommended to the board of common council as an appropriation for the year 1912; said sum of fifteen hundred dollars to be expended for the proper observance of Independence Day, July, 1912, under the direction of a committee consisting of the mayor and two aldermen to be appointed by the mayor, the president of the common council and two councilmen to be appointed by the president of the common council; said sum of fifteen hundred dollars to be known as appropriation for the observance of Independence Day; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed January 16, 1912.

RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE PURPOSE OF BUILDING A BRIDGE ACROSS THE PISCATAQUOG RIVER AT KELLEY STREET IN THE CITY OF MANCHESTER.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, That part of Manchester known as McGregorville has grown very rapidly in the past few years and the building operations in this section are steadily on the increase; and

WHEREAS, A bridge across the Piscataquog river at Kelley street would open up a territory for future building operations and be of immense benefit to those citizens residing west of the said Piscataquog river in that it would permit a more direct and quicker communication to the city proper; and

WHEREAS, A bridge at this point would be of great benefit to the merchants of McGregorville as well as to the other merchants of the city; therefore be it

Resolved, That the sum of one hundred thousand dollars be recommended to the common council as an appropriation for the year 1912; said sum of one hundred thousand dollars to be expended for the purpose of building a bridge across the Piscataquog river at Kelley street with suitable approaches to the same; said appropriation to be known as appropriation for the building of a bridge across the Piscataquog river at Kelley street in said Manchester; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed January 23, 1912.

RESOLUTION RELATIVE TO THE EXEMPTION FROM TAXATION OF CERTAIN MANUFACTURING ESTABLISHMENTS AND THE BUSINESS CONNECTED THEREWITH, PROPOSED TO BE ERECTED FOR AND CONDUCTED BY W. H. MCELWAIN COMPANY.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, in City Council assembled, as follows:

WHEREAS, It is provided by section 11, chapter 55 of the Public Statutes of New Hampshire, that "towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein and the capital to be used in operating the same, unless such establishment has been previously exempted by some town"; and

WHEREAS, There are proposed to be erected upon certain real estate in the said city of Manchester now belonging to W. H. McElwain Company, a corporation organized under the laws of the commonwealth of Massachusetts, either by the said W. H. McElwain Company or by

trustees to whom the said real estate may be conveyed, to be held by them or their successors in the trust for a term of years, building for the use of the said W. H. McElwain Company and for the purpose of manufacturing; and

WHEREAS, The said buildings are to be owned by or leased to the said W. H. McElwain Company, and the said W. H. McElwain Company is to operate manufacturing establishments therein, and for that purpose is to bring to Manchester and to use additional machinery, stock in trade, capital and other property; therefore be it

Resolved, That any buildings for the purpose of manufacturing which shall be erected in the said city of Manchester before the first day of April, 1913, upon premises now belonging to the said W. H. McElwain Company, and which shall be owned by or leased to the said W. H. McElwain Company, and the manufacturing establishments proposed to be put in operation therein, including the machinery, stock in trade and other property which may be owned or used by the said W. H. McElwain Company in the said establishments, and the capital to be used in operating the same, and the business connected therewith, be exempted from taxation for a period of ten (10) years from the first day of April, 1912, provided the said buildings have been completed and the said manufacturing establishments are in operation therein on the first day of April, 1913; and provided, also, that the owners for the time being of the said buildings, or the said W. H. McElwain Company, shall pay to the said city of Manchester annually the amount of the state and county taxes due upon all of the said property during the term of the exemption; it is further

Resolved, That this resolution shall take effect upon its passage.

Passed January 23, 1912.

RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE CARE AND MAINTENANCE OF THE SUBWAY CONVENIENCE STATION ON MERRIMACK COMMON FOR THE YEAR 1912.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That the sum of twenty-five hundred dollars be and hereby is recommended to the board of common council for the year 1912; said sum of twenty-five hundred dollars to be used for the care and maintenance of the subway convenience station on Merrimack common, as follows:

Labor, 2 men at $600 each	$1,200.00
Labor, 2 women, at $480 each	960.00
Heating and lighting	220.00
Towels, soap, etc	120.00
	$2,500.00

Said sum of twenty-five hundred dollars to be known as appropriation for the care and maintenance of the subway convenience station on Merrimack common; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed February 6, 1912.

RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE PURCHASE OF A SANITARY DRINKING FOUNTAIN TO BE LOCATED ON ELM STREET IN FRONT OF CITY HALL.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That the sum of three hundred and twenty-five dollars be and hereby is recommended to the board of common council as appropriation for the year 1912; said sum of three hundred and twenty-five dollars to be used for the purchase and erection of a sanitary drinking fountain to be located on Elm street in front of city hall; said sum of three hundred and twenty-five dollars to be known as appropriation for sanitary drinking fountain in front of city hall; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed February 6, 1912.

RESOLUTION RELATING TO THE ESTABLISHMENT OF ROCK RIMMON PARK IN THE CITY OF MANCHESTER.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, The Amoskeag Manufacturing Company has offered to deed to the city of Manchester for the sum of one dollar ($1.00) a certain parcel of land upon which Rock Rimmon is situated and described as follows:

Beginning at a point on the westerly line of Youville street three hundred and sixty-five feet north of the northerly line of Mason street; thence by the westerly line of Youville street seven hundred and fifteen feet; thence by a curve to the left of one hundred feet radius, one hundred fifty-seven and 7/100 feet; thence westerly, tangent to the last course and at right angles to Youville street, five hundred and forty feet; thence by a curve to the left of four hundred feet radius, about three hundred and seventy-three feet; thence southwesterly, tangent to the last course, eight hundred and seventy-five feet; thence by a curve to the left of four hundred feet radius, about three hundred and thirty-five feet; thence southerly, tangent to the last course, two hundred and forty-seven feet; thence by a curve to the left of

one hundred feet radius, about one hundred and fifty-three feet; thence easterly, tangent to the last course, and parallel to the Amoskeag Company's south line and fifty feet therefrom, six hundred and thirty-five feet; thence to the left, making an angle of 16½° with the last course, five hundred and eighty-one feet; thence to the left by a curve of four hundred feet radius, about four hundred and sixty-two feet to the point begun at; bounded by a roadway the entire distance, fifty feet in width, containing forty-two and 88/100 acres, United States Standard Measure; therefore be it

Resolved, By the board of mayor and aldermen that the offer of said company and the conditions imposed be accepted and that this board place upon record its appreciation of the generosity of the said company and that the thanks of the board of mayor and aldermen, in behalf of the city of Manchester, be extended to the officials of said company for the opportunity afforded said city to secure this valuable extension to its parks and playgrounds; and be it further

Resolved, That said deed and plan be and hereby is made a part of this resolution and that a copy of said resolution be submitted to the officials of said company; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed February 6, 1912.

RESOLUTION MAKING A TEMPORARY LOAN OF THREE HUNDRED THOUSAND DOLLARS ($300,000.00) IN ANTICIPATION OF THE TAXES OF THE PRESENT YEAR.

Resolved by the Board of Common Council of the City of Manchester, as follows:

That for the purpose of paying such claims against the city of Manchester as may fall due before the twenty-first day of December, 1912, the city treasurer of said city be and is hereby authorized and empowered to make such temporary loans, from time to time, for the use of the said city, of sums not exceeding the aggregate amount of three hundred thousand dollars ($300,000.00); said loans being in anticipation of the taxes of the present year and hereby expressly made payable therefrom; said treasurer giving for the said loans the notes of the said city bearing the authenticating certificate of the Old Colony Trust Company of Boston, Mass.; said notes to be signed by the said treasurer and countersigned by the mayor of said Manchester and payable within one year from their respective dates; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed February 21, 1912.

RESOLUTION RELATIVE TO THE EXEMPTION FROM TAXATION OF A CERTAIN MANUFACTURING ESTABLISHMENT TO BE ERECTED FOR THE B. H. PIPER COMPANY AND OTHERS.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, It is provided by the laws of New Hampshire that "towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town," and

WHEREAS, It is proposed to form a corporation under the laws of New Hampshire with the name of The B. H. Piper Building Company, or some other suitable name, for the purpose of buying land in the city of Manchester and erecting thereon, during the year 1912, a building to be used for manufacturing purposes by The B. H. Piper Company, a corporation now existing and doing business in said Manchester, and by other lessees and tenants of the said proposed new corporation; now therefore be it

Resolved, That the land which may be acquired by the said proposed new corporation to be known as The B. H. Piper Building Company, or by some other suitable name, and the building which may be erected thereon by said corporation, and any new machinery which the said The B. H. Piper Company may put and use in said building, and the stock in trade to be used by it in connection with said new machinery, and the capital to be used in operating the said new machinery of the said The B. H. Piper Company, and any manufacturing establishment which may be put into operation in said building by any person or corporation occupying any part of said building not occupied and used by the said The B. H. Piper Company, as a lessee or tenant of the said proposed new corporation, and the machinery, stock in trade and capital used in operating said manufacturing establishment of any such lessee or tenant, be and the same all are hereby exempted from taxation for the period of ten years from the fourteenth day of February, 1912;

Provided, That the said proposed new corporation shall have been organized, said land acquired, said building completed and said manufacturing establishments put in operation therein on the first day of April, 1913; *and provided* also that the owners of all the property exempted from taxation by this resolution shall pay annually to the city of Manchester the amount of the state and county taxes which may be assessed and become due upon all of said exempted property during the term of the exemption herein provided; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed March 5, 1912.

RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE BUILDING OF A BRIDGE OVER THE TRACKS OF THE MANCHESTER AND LAWRENCE AND THE CONCORD AND PORTSMOUTH RAILROADS AT SOME POINT BETWEEN HAYWARD AND BAKER STREETS, IN THE CITY OF MANCHESTER.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, Owing to the peculiar layout of the streets of South Manchester, so called, in relation to the tracks of the Manchester and Lawrence and the Concord and Portsmouth railroads there is no thoroughfare leading east and west between Hayward and Baker streets, thereby causing all traffic in this locality to make a wide detour; and

WHEREAS, Owing to the rapid development of this section a bridge over the aforesaid tracks of the Manchester and Lawrence and the Concord and Portsmouth railroads is a public necessity; therefore be it

Resolved, That the sum of five thousand dollars be and hereby is recommended to the board of common council as an appropriation for the year 1912; said sum of five thousand dollars to be expended for the purpose of building a bridge over the tracks of the Manchester and Lawrence and Concord and Portsmouth railroads at some point between Hayward and Baker streets; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed March 5, 1912.

RESOLUTION RELATING TO INTEREST ON DEPOSITS OF THE CITY OF MANCHESTER.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That the monies of the city of Manchester be deposited in such bank or banks in said city as shall pay the largest rate of interest to said city of Manchester upon daily balances in said bank or banks from the first day of May, 1912, to the first day of May, 1913; and that the city treasurer be and hereby is instructed to advertise for bids from the banks of the city of Manchester by sending to each of said banks a copy of this resolution, the city of Manchester, by its agent, the treasurer of said city, reserving the right to reject any and all bids and call for such other bids as may be necessary to carry out the intent of this resolution; and be it further

Resolved, That the mayor and the treasurer of said city of Manchester are hereby authorized and empowered to accept such bid or bids as will give the city of Manchester the largest rate of interest upon the daily balances on deposits of the monies of said city of

Manchester in said bank or banks from the first day of May, 1912, to the first day of May, 1913; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed April 2, 1912.

RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE ERECTION OF A FIRE-PROOF BUILDING, THE PURCHASE AND INSTALLING THEREIN A MODERN FIRE-ALARM SYSTEM, AND THE PLACING UNDERGROUND OF THE FIRE-ALARM WIRES.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That the sum of eighty thousand dollars be recommended to the board of common council as an appropriation for the year 1912; said sum of eighty thousand dollars to be expended for the purpose of (1) erecting and fitting up a fire-proof building upon the old portion of the central fire station, (2) the purchase and installation therein of a modern fire-alarm system and (3) the placing underground of the fire-alarm wires, as follows:

Twenty-nine thousand dollars for the erection and fitting up of a fire-proof building; twenty-eight thousand dollars for the purchase of a fire-alarm system, and twenty-three thousand dollars for the placing underground of the fire-alarm wires; said sum of eighty thousand dollars to be known as appropriation for the erection of a fire-proof building, the purchase and installing therein a modern fire-alarm system, and the placing underground of the fire-alarm wires; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed April 2, 1912.

RESOLUTION AUTHORIZING THE BOSTON AND MAINE RAILROAD TO CONSTRUCT FOUR SIDE TRACKS ACROSS BYRON STREET IN THE CITY OF MANCHESTER.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That for the accommodation of the W. H. McElwain Company, a corporation doing business in the city of Manchester, leave be and it hereby is granted to the Boston and Maine railroad to build four sidetracks across Byron street in said Manchester, said sidetracks to be located as follows:

For purposes of reference in the following descriptions, a stake at the intersection of the northerly line of Byron street with the center line of the westerly main track of the Boston and Maine railroad shall be known as "stake A"; a stake at the intersection of the south-

erly line of Byron street with the center line of the westerly main track of the Boston and Maine railroad shall be known as "stake B."

First side track. Beginning at a stake on the northerly line of Byron street about fifty-one and nine tenths (51.9) feet easterly from "stake A" and measured on said northerly line of Byron street; thence in a southerly direction to a stake on the southerly line of Byron street, said last mentioned stake being about fifty-six and five tenths (56.5) feet easterly from "stake B," and measured on said southerly line of Byron street.

Second side track. Beginning at a stake on the northerly line of Byron street about fifty-seven and one tenth (57.1) feet easterly from "stake A" and measured on said northerly line of Byron street; thence in a southerly direction to a stake on the southerly line of Byron street, said last mentioned stake being about sixty-six (66) feet easterly from "stake B" and measured on said southerly line of Byron street.

Third side track. Beginning at a stake on the northerly line of Byron street about thirty-one (31) feet westerly from "stake A" and measured on said northerly line of Byron street; thence in a southerly direction to a stake on the southerly line of Byron street, said last mentioned stake being about thirty-six and five tenths (36.5) feet westerly from "stake B."

Fourth side track. Beginning at a stake on the northerly line of Byron street about forty-one (41) feet westerly from "stake A" and measured on said northerly line of Byron street; thence in a southerly direction to a stake on the southerly line of Byron street, said last mentioned stake being about forty-eight and five tenths (48.5) feet westerly from "stake B" and measured on said southerly line of Byron street; and be it further

Resolved, That the sketch accompanying the petition of the W. H. McElwain Company presented to the board of mayor and aldermen at a meeting held April 2, 1912, be and is hereby made a part of this resolution; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed May 3, 1912.

RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE PURCHASE OF LAND FOR SCHOOL PURPOSES.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, The vacant lot of land on South Main street, so called, in the city of Manchester situate immediately north of the Parker schoolhouse lot and adjoining thereto is about to be sold; and

WHEREAS, There is at present a limited area of playground about the said school, and believing that it would be advantageous for the city

of Manchester to acquire this parcel of land for school purposes before the same is built upon; therefore be it

Resolved, That we recommend to the board of common council that an appropriation be made for the purchase of the aforesaid lot of land and that the accompanying sketch showing location of said lot be and hereby is made a part of this resolution; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed May 3, 1912.

RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE PURCHASE OF LAND TO BE USED AS AN EXTENSION TO PINE GROVE CEMETERY.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That in the opinion of the board it is desirable that an extension to Pine Grove cemetery should be acquired, and it hereby recommends to the board of common council that a temporary loan or an issue of bonds for eight thousand dollars be made to purchase land for said extension; and be it

Resolved, That if and when the board of common council shall have made said loan or issue for said purchase, the board of sub-trustees of Pine Grove cemetery be and is hereby authorized to purchase for and in the name and behalf of the city of Manchester as and for an extension to Pine Grove cemetery seventy-two acres of land bounded and described as follows:

Bounded on the east by Brown avenue, on the south by land now or formerly of C. C. Webster, on the west by land of the Concord and Montreal railroad, and on the north by land of the city of Manchester; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed May 7, 1912.

RESOLUTION RELATING TO THE EXEMPTION FROM TAXATION OF AN ADDITION TO THE FACTORY BUILDING OF THE WEST SIDE COMPANY AND THE MANUFACTURING BUSINESS CONNECTED THEREWITH.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, It is provided by section 11, chapter 55 of the Public Statutes of New Hampshire "that towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town"; and

WHEREAS, The West Side Company proposes to build an addition to its factory building situate on West Hancock street in said Manchester and to operate or lease a manufacturing establishment therein, the same to be operated with machinery for manufacturing purposes; therefore be it

Resolved, That the said addition to the factory building of the West Side Company on West Hancock street to be erected and the manufacturing establishment proposed to be put in operation in said addition, and the machinery which may be put and used in said addition, and the capital to be used by the said West Side Company or by its lessees in operating the manufacturing establishment in said addition and the business connected therewith be exempted from taxation for a period of ten years from the first day of June, 1912; *provided, however*, that said addition shall be completed and in operation on or before April 1, 1913, and the said West Side Company pay to the city of Manchester annually the amount of the state and county tax due in respect to said addition from the said city of Manchester to the state of New Hampshire and the county of Hillsborough, as required by an act of the legislature of said state approved April 9, 1909; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed May 22, 1912.

RESOLUTION RELATING TO THE ISSUANCE OF $100,000 OF CITY BONDS FOR THE PURPOSE OF BUILDING NEW SEWERS, MACADAMIZING AND NEW HIGHWAYS AND BRIDGES AND CULVERTS IN SAID MANCHESTER.

Resolved by the Board of Common Council of the City of Manchester, in City Council assembled, as follows:

That the sum of one hundred thousand dollars ($100,000) be borrowed for the use of the said city by issuing bonds in accordance with an act of the legislature of New Hampshire passed at the January session, 1895, entitled "An Act to authorize muncipal corporations to issue bonds"; said sum of one hundred thousand dollars to be appropriated as follows:

Macadamizing and new highways	$78,500.00
New sewers	20,000.00
Bridges and culverts	1,500.00

Said bonds to be dated July 1, 1912, and payable to bearer as follows: five thousand dollars ($5,000) on each of the following dates: July 1, 1913, July 1, 1914, July 1, 1915, July 1, 1916, July 1, 1917, July 1, 1918, July 1, 1919, July 1, 1920, July 1, 1921, July 1, 1922, July 1, 1923, July 1, 1924, July 1, 1925, July 1, 1926, July 1, 1927, July 1, 1928, July 1, 1929, July 1, 1930, July 1, 1931, and July 1, 1932; said bonds to bear the

city seal, to be signed by the mayor and countersigned by the city treasurer, and to bear interest at the rate of three and one half per cent (3½%) per annum from date, and to have coupons attached bearing the facsimile signature of the city treasurer for the payment of interest at said rate, semi-annually, on the first days of January and July of each year, and the city treasurer is hereby authorized to fix the place of payment of interest and principal of said bonds, and under the instructions of the mayor, and the standing committee on finance of said board of common council, is authorized to sell said bonds to the highest responsible bidder, and to do all things necessary and proper to complete and carry into effect the issue of said bonds; and be it further

Resolved, That said board of common council recommend to the board of public works that the said sum of one hundred thousand dollars ($100,000) be expended for the following purposes:

MACADAMIZING AND NEW HIGHWAYS.

Maple street, Dix to Auburn street; Hayward street, Maple to Lincoln street; Silver street, Maple to Lincoln street; Hanover street, Beacon street to Lake avenue; Willow street, Silver to Beech street; Kelley street, Morgan street to Notre Dame avenue; Calef road, Baker street to Pine Grove Cemetery gate; Baker street, Elm street to Calef road; Shasta street, Willow to Maple street; Maple street, Dix to Shasta street; Elm street, Valley street to Manchester & Lawrence Railroad overhead bridge; Hayward street, Elm to Willow street; Willow street, Hayward street to Cohas shoe shop; Notre Dame avenue, Amory to Kelley street.

CULVERT.

Mile brook, Lowell to East High streets.

SEWERS.

Front street, Goffstown road to Black brook; Goffstown road, Front street to west of Maxwell street; Maxwell street, Goffstown road southerly; Taggart street, Goffstown road southerly and outlet to Merrimack river; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed July 1, 1912.

RESOLUTION RECOMMENDING A TEMPORARY LOAN OF TWO THOUSAND DOLLARS ($2,000.00), FOR THE PURPOSE OF PURCHASING AN ADDITION OF LAND FOR THE PARKER SCHOOL.

Resolved by the Board of Common Council of the City of Manchester, in City Council assembled, as follows:

That the mayor be and hereby is authorized to make a temporary loan of the sum of two thousand dollars ($2,000.00), giving for the

same the note of the city of Manchester, signed by the mayor and countersigned by the city treasurer, and payable on or before twelve months from the day of issue; and be it further

Resolved, That said sum of two thousand dollars ($2,000.00) be expended for purchasing an addition of land for the Parker school, owned by Mrs. J. C. Barker of Haverhill, Mass., of 11,905 square feet; and be it further

Resolved, That said appropriation be known as appropriation for purchasing an addition to Parker school; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed July 1, 1912.

RESOLUTION ACCEPTING THE OFFER OF FRANK P. CARPENTER TO DONATE TO THE CITY OF MANCHESTER A NEW PUBLIC LIBRARY BUILDING AND PROVIDING FOR THE ACQUISITION OF LAND FOR SAID PURPOSE.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

Resolved, That the offer of Frank P. Carpenter to convey to the city of Manchester for the consideration of one dollar all the land owned by him between Amherst, Pine and Concord streets and a line one hundred and sixty feet easterly from Pine street and parallel thereto in Manchester, as the location for a new public library building for the accommodation of the city library; and to pay the cost of the acquiring of the title by the city of Manchester to such land lying within the boundaries above mentioned as is not now owned by him; and when the city of Manchester has acquired the title to all said land, to erect thereon at his own expense a new public library building for the accommodation of the city library, at a cost not less than two hundred thousand dollars, in accordance with plans to be approved by himself; be and the same is hereby gratefully accepted.

Resolved, further, That it is expedient that the city of Manchester acquire title at once to all land lying within the boundaries above mentioned which is not now owned by said Frank P. Carpenter as the site of a new public library building for the accommodation of the city library, and for that purpose and to that end the mayor be and hereby is authorized, empowered and directed to acquire the title for the city of Manchester to all such land within said boundaries as is not now owned by said Frank P. Carpenter by contract for a reasonable price with the owners, if possible, and if the title cannot be so acquired, then said mayor is authorized, empowered and directed to cause all such land to be taken by the city or Manchester for public use as a site for a new public library building and to have the damages assessed as provided by the laws of New Hampshire.

Resolved, That this resolution shall take effect upon its passage.

Passed July 2, 1912.

RESOLUTION RELATING TO THE EXEMPTION FROM TAXATION OF THE ONE HUNDRED THOUSAND DOLLARS CITY BONDS PROPOSED TO BE ISSUED JULY 1, 1912.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, By an act of the legislature approved March 13, 1907, "Any city, town, precinct or village district may exempt from taxation any future issue of its bonds, provided such exemption shall apply only to bonds owned and held by citizens of said city, town, precinct or village district"; therefore be it

Resolved, That the one hundred thousand dollars ($100,000) city bonds proposed to be issued under date of July 1, 1912, be and are hereby exempted from taxation when owned and held by citizens of said Manchester; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed July 15, 1912.

RESOLUTION RECOMMENDING AN APPROPRIATION FOR THE PURCHASE OF AN AUTOMOBILE LADDER TRUCK FOR ENGINE HOUSE SOUTH OF PISCATAQUOG RIVER.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, An appropriation has been made for a two-door engine house south of the Piscataquog river and a site purchased and plans made for the erection of the building, said building to be completed about November 1, 1912; and

WHEREAS, No provision has been made for purchasing the necessary fire apparatus to equip the said house and believing that a motor driven ladder truck would be the most practical piece of apparatus to install in the said house and as it would take from ninety to one hundred twenty days to secure delivery of an automobile ladder truck after purchase has been made; therefore be it

Resolved, That the sum of six thousand dollars be and is hereby recommended to the board of common council as an appropriation to be made for the purchase of an automobile ladder truck for engine house south of Piscataquog river; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed July 16, 1912.

RESOLUTION RELATING TO THE PLACING OF SEATS IN THE EAST SIDE PARK, SO CALLED, IN THE CITY OF MANCHESTER.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, Under date of February 6, 1906, East Side park was laid out as a public park, the same to be kept for ornament and recreation; and

WHEREAS, The purposes for which said park was created have not been fully carried out inasmuch as no provision has ever been made allowing the public the use of this park as a resting place; therefore be it

Resolved, That the board of public works be requested to place eight or more park benches in said park at once; and be it further

Resolved, That a copy of this resolution be presented by the city clerk to the board of public works at its next meeting; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed July 19, 1912.

RESOLUTION RELATING TO THE EXEMPTION FROM TAXATION OF ADDITIONS TO THE FACTORY BUILDING OF THE QUEEN CITY LAND AND BUILDING ASSOCIATION AND THE MANUFACTURING BUSINESS CONNECTED THEREWITH.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, It is provided by section 11, chapter 55 of the Public Statutes of New Hampshire, "that towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town"; and

WHEREAS, The Queen City Land and Building Association proposes to build additions to its factory building, as follows: a one-story sky-light addition; a two-story addition to its office; and a four-story addition to the main part of present factory building situate at the corner of Lincoln and Silver streets in said Manchester and to operate or lease a manufacturing establishment therein, the same to be operated with machinery for manufacturing purposes; therefore be it

Resolved, That the said additions to the factory building of the Queen City Land and Building Association at the corner of Lincoln and Silver streets to be erected and the manufacturing establishment proposed to be put in operation in said additions, and the capital to be used by the said Queen City Land and Building Association or by its lessees in operating the manufacturing establishment in said addi-

tions and the business connected therewith be exempted from taxation for a period of ten years from the first day of July, 1912, *provided, however*, that said additions shall be completed and in operation on or before April 1, 1913, and *provided further* that the said Queen City Land and Building Association pay to the city of Manchester annually the amount of the state and county tax due in respect to said additions from the said city of Manchester to the state of New Hampshire and the county of Hillsborough, as required by an act of the legislature of said state approved April 9, 1909; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed July 19, 1912.

RESOLUTION RELATING TO THE PLACING OF ADDITIONAL SEATS IN HANOVER COMMON, SO CALLED, IN THE CITY OF MANCHESTER.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That for the better accommodation of the public there should be installed ten additional seats in Hanover common, so called, in the city of Manchester; therefore be it

Resolved, That the board of public works be requested to place ten seats, equally distant from each other, along the Hanover street side of the common at once; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed August 6, 1912.

RESOLUTION AUTHORIZING A TEMPORARY LOAN OF SIX THOUSAND DOLLARS FOR THE PURCHASE OF AN AUTOMOBILE LADDER TRUCK FOR ENGINE HOUSE SOUTH OF PISCATAQUOG RIVER.

Resolved by the Board of Common Council of the City of Manchester, as follows:

That the mayor be and is hereby authorized to make a temporary loan of the sum of six thousand dollars, giving for the same the note or notes of the city of Manchester signed by the mayor and countersigned by the city treasurer and payable on or before six months from the date or dates of issue; and be it further

Resolved, That said sum of six thousand dollars be expended for the purchase of an automobile ladder truck for engine house south of Piscataquog river; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed August 9, 1912.

RESOLUTION AUTHORIZING AN ISSUE OF ONE HUNDRED FIVE THOUSAND DOLLARS ($105,000) MUNICIPAL BONDS.

Resolved by the Board of Common Council of the City of Manchester, as follows:

That the sum of one hundred five thousand dollars ($105,000) be borrowed for the use of said city, by issuing bonds in accordance with an act of the legislature of New Hampshire passed at the January session, 1895, entitled "An act to authorize municipal corporations to issue bonds," and known as the "Municipal Bonds Act, 1895," said sum to be appropriated for the purpose of erecting and fitting up a fire-proof building upon the old portion of the central fire station, the purchase and installation therein of a modern fire-alarm system and the placing underground of the fire-alarm wires; said bonds to be dated September 1, 1912, and payable to bearer as follows: Five thousand dollars ($5,000) on each of the following dates: September 1, 1913, September 1, 1914, September 1, 1915, September 1, 1916, September 1, 1917, September 1, 1918, September 1, 1919, September 1, 1920, September 1, 1921, September 1, 1922, September 1, 1923, September 1, 1924, September 1, 1925, September 1, 1926, September 1, 1927, September 1, 1928, September 1, 1929, September 1, 1930, September 1, 1931, and ten thousand dollars ($10,000) September 1, 1932; said bonds to bear the city seal, to be signed by the mayor and countersigned by the city treasurer, to bear interest at the rate of three and one half per cent (3½%) per annum from date, to have coupons attached bearing the fac-simile signature of the city treasurer for the payment of interest at said rate, semi-annually, on the first days of March and September of each year, and the city treasurer is hereby authorized to fix the place of payment of interest and principal of said bonds, and under the instructions of the mayor and the standing committee of finance of the board of common council is authorized to sell said bonds to the highest responsible bidder, and to do all things necessary and proper to complete and carry into effect the issue of said bonds.

Passed August 9, 1912.

RESOLUTION RELATING TO THE EXEMPTION FROM TAXATION OF THE ONE HUNDRED FIVE THOUSAND DOLLARS MUNICIPAL BONDS PROPOSED TO BE ISSUED SEPTEMBER 1, 1912.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, By an act of the legislature approved March 13, 1907, "Any city, town, precinct or village district may exempt from taxation any future issue of its bonds, provided such exemption shall apply only to bonds owned and held by citizens of said city, town, precinct or village district"; therefore be it

Resolved, That the one hundred five thousand dollars ($105,000) municipal bonds proposed to be issued under date of September 1, 1912, be and are hereby exempted from taxation when owned and held by citizens of said Manchester; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed August 20, 1912.

RESOLUTION RELATING TO THE DEATH OF ALDERMAN ARTHUR W. DINSMORE.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, Almighty God suddenly removed from our midst Alderman Arthur W. Dinsmore in the full vigor of manhood; therefore be it

Resolved, That in his untimely death we have lost a genial, considerate and most agreeable associate, and the city of Manchester a faithful servant whose long experience in legislative affairs made him well fitted for the position he held; and be it further

Resolved, That this resolution be spread upon the records, and a copy of the same be forwarded to the widow and with it our heartfelt sympathy for her in her hour of sorrow.

Passed August 20, 1912.

RESOLUTION RELATING TO PORTRAIT OF WILLIAM P. NEWELL.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, Walter P. Newell of Warner, New Hampshire, has offered to donate to the city of Manchester a portrait of his father, the late William P. Newell, a trustee of the Manchester Atheneum and for many years a trustee of the city library of the city of Manchester; therefore be it

Resolved, By the board of mayor and aldermen that the portrait be accepted, to be hung upon the walls of the said city library; and be it further

Resolved, That a vote of thanks be and hereby is extended to Walter P. Newell for the gift and that a copy of this resolution be forwarded to him.

Passed August 26, 1912.

RESOLUTION RELATING TO THE LIMITING OF THE BORROWING CAPACITY OF THE CITY OF MANCHESTER AND THE LIMITING OF THE TAX LEVY OF THE CITY OF MANCHESTER.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That a special committee consisting of His Honor the mayor, the city auditor, and the city solicitor, prepare a special law for the city of Manchester which shall have for its objects:

1. The limiting of the borrowing capacity of the city to one and one half per cent of its valuation, the valuation to be that of the previous year except where exemption expires on property not hitherto taxed.

2. The limiting of the tax levy for all purposes to sixteen dollars on the thousand, the object being to prevent the borrowing of money to meet fixed charges, and to prevent the various departments of the city from increasing their fixed charges except where such increase is specifically submitted to the city council, and an appropriation is made to cover it.

This draft to be submitted to the boards of mayor and aldermen and common council and, if approved by said boards, to be presented to the Manchester delegation of the next legislature with the recommendation that it be enacted into law; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed August 26, 1912.

RESOLUTION MAKING A TEMPORARY LOAN OF THREE THOUSAND DOLLARS FOR ENGINE HOUSE SOUTH OF PISCATAQUOG RIVER.

Resolved by the Board of Common Council of the City of Manchester, as follows:

That the mayor be and is hereby authorized to make a temporary loan of the sum of three thousand dollars, giving for the same the note or notes of the city of Manchester signed by the mayor and countersigned by the city treasurer; and payable on or before twelve months from the date of issue; said sum of three thousand dollars to be expended for the purpose of making the appropriation for engine house south of Piscataquog river adequate to complete the said engine house according to the plans and specifications approved by the committtee on lands and buildings of the board of mayor and aldermen; and be it further

Resolved, That the city clerk be and is hereby authorized to transfer said sum of three thousand dollars to the appropriation known as appropriation for "engine house south of Piscataquog river"; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed September 6, 1912.

RESOLUTION RELATIVE TO THE STOPPING OF THE MANCHESTER AND CONCORD LINE OF STREET CARS, UPON SIGNAL, WHILE SAID CARS ARE UPON THE TRACKS OF THE MANCHESTER STREET RAILWAY.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That the Manchester Street Railway be and is hereby ordered to stop the cars of the Manchester and Concord line of the Boston and Maine railroad in the city of Manchester, upon signal, for the taking on or discharge of passengers, as are all other cars of the Manchester Street Railway; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed September 17, 1912.

RESOLUTION AUTHORIZING THE PURCHASE OF A CERTAIN PARCEL OF LAND OWNED BY THE HEAD AND DOWST COMPANY AND BOUNDED BY DEPOT STREET, FRANKLIN WEST BACK STREET, GRANITE STREET AND LAND OF SAID COMPANY.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, The demand for additional room and space is needed for the storage and housing of horses, trucks, road rollers and other property and for repairing the same during the winter months, and that considerable waste and deterioration will be caused on the property now being used by this department unless adequate facility is afforded for the proper and necessary storage and repairing, etc., needed to be done by the city in proportion to the ever increasing demand made for work; therefore be it

Resolved, That the board of public works be and is hereby authorized and empowered to purchase the land now lying west of said city yard, bounded and described as follows, to wit: Bounded easterly by Franklin west back street; southerly seventy (70) feet on Granite street; westerly by land of the Head & Dowst Company, and northerly seventy (70) feet on Depot street, for such terms as the said board of public works may in its judgment deem to be for the best interests of the city of Manchester, the price not to exceed two dollars ($2.00) per square foot.

Passed September 25, 1912.

RESOLUTION RELATING TO THE ADVISABILITY OF ESTABLISHING A SYSTEMATIC FIRE INSPECTION OF BUILDINGS.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That the board of engineers of the fire department be requested to investigate the advisability and practicability of establishing a regular system of inspection of the buildings of this city, especially public, mercantile, industrial and tenement buildings, and the yards, outhouses and alleys in proximity to the same from a fire hazard standpoint; said inspection to be carried out in a systematic manner by members of the fire department for the purpose of detecting, reporting, and correcting hazardous conditions and thus reducing the fire risk and further for the purpose of familiarizing the members of the force with the construction and condition of the buildings of the city and their environs; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed October 15, 1912.

RESOLUTION RELATING TO WOMEN VOTING FOR MEMBERS OF THE SCHOOL BOARD IN THE CITY OF MANCHESTER.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, Under the Statutes, chapter 90, sect. 9, "any person, whether male or female, but in all other respects except sex qualified to vote in town affairs, may vote at school district meetings in the district in which said person has resided and had a home three months next preceding the meeting," and whereas, in the charter of the city of Manchester, the city as a whole is constituted a school district within the meaning of the Statute; it is the sense of this board that, under the law, women have a right to vote for members of the school board but since, under the provisions of the Australian ballot law, only the official ballot, containing the names of all candidates for all offices, can be used at an election and no other ballot can be accepted by the moderator and since it is not legal for a woman to cast the official ballot and there is apparently no provision of the law for a special ballot bearing only the names of candidates for the school board, it is thus practically impossible for the women of this city to exercise their legal right of voting on school board candidates; and be it further

Resolved, That provision should be made to permit the women of Manchester to vote upon candidates for the school board at the election of 1912, if possible, and if not, at the next election, and that a com-

mittee of three be appointed by the chair to investigate into the matter and recommend to this board, at the earliest possible date, what procedure is required to secure the desired result: said committee to have power to draft an act to be presented to the incoming legislature in case such statutory authority is found to be required.

Passed October 18, 1912.

RESOLUTION RELATING TO THE DISCONTINUANCE OF PINE EAST BACK STREET AMHERST TO CONCORD.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

That in the opinion of the mayor and aldermen the highway in the city of Manchester known as Pine east back street Amherst to Concord, which was laid out by the board of selectmen of the town of Manchester on September 14, 1841, and described in the layout as follows: Beginning on Concord street at a point one hundred and ten feet east of Pine street and thence running southerly to Amherst street, said line to be the middle of the highway and the same to be twenty feet wide, is no longer needed for the accommodation of the public travel.

Wherefore resolved further by the mayor and aldermen of the city of Manchester in city council assembled that said Pine east back street Amherst to Concord laid out as aforesaid and now existing in the city of Manchester, be and the same is hereby discontinued; and that damages on account of such discontinuance be awarded to the owners of all the land abutting on said highway as follows: To Frank P. Carpenter, being the owner of all land abutting on said highway, one cent.

Resolved further, That this resolution shall take effect upon its passage.

Passed October 21, 1912.

RESOLUTION PROVIDING A ROOM IN A CITY BUILDING TO BE USED FOR FREE DENTAL TREATMENT FOR THE CHILDREN OF THE CITY OF MANCHESTER UNDER 12 YEARS OF AGE.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, Examinations conducted by the board of health physicians show that more than eighty per cent of the school children have defective teeth; and

WHEREAS, This condition is a deplorable one and one that should be remedied as the results arising from the neglect of teeth become serious; and

WHEREAS, The dentists of the city of Manchester have offered to furnish free dental treatment to all children of the city under 12 years who desire to take advantage of the opportunity offered; therefore be it

Resolved, That we heartily commend the public spirit shown by the dentists of the city of Manchester in this voluntary offer and urge the coöperation of the city council of the city of Manchester with the dentists in their efforts to protect the health of school children; and be it further

Resolved, That the mayor and committee on lands and buildings be and are hereby empowered to set aside a suitable room in one of the city buildings for the aforesaid purpose; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed November 12, 1912.

RESOLUTION RELATING TO THE EXEMPTION FROM TAXATION OF THE GEO. R. JONES COMPANY, A MANUFACTURING ESTABLISHMENT, AND THE CAPITAL TO BE USED IN OPERATING THE SAME.

Resolved by the Board of Mayor and Aldermen of the City of Manchester, as follows:

WHEREAS, It is provided by section 11, chapter 55 of the Public Statutes of New Hampshire that "towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town"; and

WHEREAS, The Geo. R. Jones Company proposes to put in operation a manufacturing establishment in said Manchester for the manufacture of boots and shoes; therefore be it

Resolved, That the said manufacturing establishment of the Geo. R. Jones Company proposed to be put in operation in said Manchester, and the capital to be used in operating the same, and the business connected therewith, be exempted from taxation for a period of ten years from the first day of December, 1912; *provided, however*, that said Geo. R. Jones Company pay to the said city of Manchester annually the amount of the state and county tax due in respect to said manufacturing establishment from said city of Manchester to the state of New Hampshire and the county of Hillsborough, as required by the act of the legislature of said state approved April 9, 1909, and entitled "An act in amendment of section 11 of chapter 55 of the Public Statutes relating to tax exemptions"; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed December 17, 1912.

RESOLUTION AUTHORIZING A TEMPORARY LOAN OF SEVEN HUNDRED FIFTY DOLLARS ($750) FOR THE USE OF THE DEPARTMENT OF BUILDINGS.

Resolved by the Board of Common Council of the City of Manchester, as follows:

That the mayor be and is hereby authorized to make a temporary loan of seven hundred fifty dollars ($750), giving for the same the note of the city of Manchester signed by the mayor and countersigned by the city treasurer, payable on or before six months from date of issue; and be it further

Resolved, That the city clerk be and is hereby authorized to transfer said sum of seven hundred fifty dollars ($750) to the appropriation known as appropriation for repairs for public buildings; and be it further

Resolved, That said sum be expended by said department of buildings for additional expenditures in its department; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed December 17, 1912.

RESOLUTION AUTHORIZING A TEMPORARY LOAN OF ELEVEN HUNDRED DOLLARS ($1,100) FOR THE USE OF THE BOARD OF ASSESSORS.

Resolved by the Board of Common Council of the City of Manchester, as follows:

That the mayor be and hereby is authorized to make a temporary loan of eleven hundred dollars ($1,100), giving for the same the note of the city of Manchester signed by the mayor and countersigned by the city treasurer, payable on or before six months from the date of issue; and be it further

Resolved, That the city clerk be and is hereby authorized to transfer said sum of eleven hundred dollars ($1,100) to the appropriation known as appropriation for assessors' department; and be it further

Resolved, That said sum be expended by the board of assessors for additional expenses in its department; and be it further

Resolved, That this resolution shall take effect upon its passage.

Passed December 17, 1912.

AN ORDER TO BUILD CERTAIN SEWERS.

Ordered, That the board of public works be and is hereby authorized to build certain sewers as follows: Commencing at the sewer line of Blodget street; thence in a southerly direction to Harrison street in Russell street; commencing at the sewer line of Kelley street; thence in a northerly direction to the sewer line of Bremer street in Reed east

back street; commencing at the sewer line of Pine east back street; thence in an easterly direction to the sewer line of Union street in Bell south back street; commencing at the sewer line of Bell south back street; thence in a southerly direction to the sewer line of Valley street in Pine east back street; commencing at the sewer line of Amory street, thence in a southerly direction three hundred fifty (350) feet in Congress street in said city; and the expense thereof to be charged to the appropriation for new sewers.

Passed February 14, 1912.

AN ORDER TO PRINT THE SIXTY-SIXTH ANNUAL REPORT OF THE RECEIPTS AND EXPENDITURES OF THE CITY OF MANCHESTER.

Ordered, That the committee on finance be and is hereby authorized to procure for the use of the inhabitants of said city, the printing of the sixty-sixth annual report of the receipts and expenditures of the city of Manchester, including the reports of the city auditor, the school board and superintendent of schools, superintendent of water works, water commissioners, engineers of fire department, overseer of the poor, trustees, librarian and treasurer of the city library, committee on cemeteries, city physician, city solicitor, chief engineer, board of public works, superintendent of buildings and such other matter relative to city affairs as said finance committee may direct; the expenses thereof to be charged to the appropriation for printing and stationery.

Passed February 14, 1912.

AN ORDER TO PURCHASE TEN HORSES FOR USE IN THE FIRE DEPARTMENT.

Ordered, That the mayor and standing committee on fire department be and are hereby authorized and empowered to purchase ten horses for use in the fire department of the city of Manchester; the expense thereof to be charged to the appropriation for fire department.

Passed February 14, 1912.

AN ORDER TO PURCHASE HAY, STRAW, AND GRAIN FOR USE IN THE FIRE DEPARTMENT.

Ordered, That the mayor and standing committee on fire department be and are hereby instructed to purchase all hay, straw, and grain used in the fire department of the city of Manchester for the ensuing year; the expense thereof to be charged to the appropriation for fire department.

Passed February 14, 1912.

AN ORDER TO INSTALL TWO TUNGSTEN LIGHTS.

Ordered, That the committee on lighting streets be and is hereby authorized and empowered to install two tungsten lights with proper fixtures for operating the same; the expense thereof to be charged to appropriation for lighting streets; said lights to be located as follows:

On Porter street about half way between Amherst and Concord streets, as petitioned for by Mrs. Annie Connors *et al.*

Corner of Pine and Bell streets, as petitioned for by John Conway *et al.*

Passed February 14, 1912.

AN ORDER TO BUILD A CERTAIN SEWER, COMMENCING AT THE SEWER LINE OF BRIDGE STREET; THENCE IN A SOUTHERLY DIRECTION TO THE SEWER LINE OF EAST HIGH STREET IN HIGHLAND STREET.

Ordered, That the board of street and park commissioners be and are hereby authorized to build a certain sewer as follows: Commencing at the sewer line of Bridge street; thence in a southerly direction to the sewer line of East High street in Highland street in said city, and the expense thereof be charged to the appropriation for new sewers.

Passed March 5, 1912.

AN ORDER TO BUILD CERTAIN SEWERS.

Ordered, That the board of public works be and is hereby authorized to build certain sewers as follows: Commencing at the sewer line of Shasta street; thence in a southerly direction about two hundred (200) feet in Willow street; commencing at the sewer line of Clay street; thence in a northerly direction to the sewer line of Somerville street in Cypress street; commencing at the sewer line of Shasta street; thence in a southerly direction to the sewer line of Willow street in Beech street; commencing at the sewer line of Hall street; thence in an easterly direction thirteen hundred (1,300) feet in Holly avenue; commencing at the sewer line of Cilley road; thence in a southerly direction to the sewer line of Holly avenue in Hall street; commencing at the sewer line of Wilson street; thence in an easterly direction to the sewer line of Hall street in Cilley road; commencing at the sewer line of Wilson street; thence in an easterly direction to the sewer line of Hall street in Howe street; commencing at the sewer line of Dix street; thence in a southerly direction to the sewer line of Cilley road in Wilson street; commencing at the sewer line of Boutwell street; thence in a westerly direction to the sewer line of Morgan street in Kelley street; commencing at the sewer line of Joliette street; thence in a westerly direction to the sewer line of Laval street

in Bremer street; commencing at the sewer line of Bank street; thence in a southerly direction to the sewer line of Allen street in Boynton street; commencing at the sewer line of Bremer street; thence in a northerly direction three hundred fifty (350) feet in Alsace street; commencing at the sewer line of Mammoth road and thence in an easterly direction two hundred (200) feet in Wayland avenue; commencing at the northerly terminus of the present sewer north of Kelley street and thence in a northerly direction five hundred (500) feet in Joliette street in said city; and the expense thereof to be charged to the appropriation for new sewers.

Passed May 7, 1912.

AN ORDER IN RELATION TO THE CELEBRATION OF INDEPENDENCE DAY.

Ordered, That a special committee consisting of the mayor and two aldermen and the president of the common council and two councilmen be and is hereby authorized and empowered to expend the sum of one thousand dollars for the celebration of Independence Day; said sum of one thousand dollars to be charged to the appropriation for celebration of Independence Day.

Passed May 22, 1912.

AN ORDER IN RELATION TO THE DECORATION OF SOLDIERS' GRAVES.

Ordered, That the Louis Bell Post, No. 3, G. A. R., be and is hereby authorized and empowered to expend the sum of four hundred dollars for the decoration of soldiers' graves of the said Louis Bell Post and the Spanish War Veterans; said sum of four hundred dollars to be charged to the appropriation for Louis Bell Post, G. A. R. (decoration of soldiers' graves); and that the Joseph Freschl Post, G. A. R., be and is hereby authorized and empowered to expend the sum of one hundred dollars for the decoration of soldiers' graves of the said Joseph Freschl Post; said sum of one hundred dollars to be charged to the appropriation for Joseph Freschl Post, G. A. R. (decoration of soldiers' graves); said sums of four hundred dollars and one hundred dollars dollars to be expended under the direction of the mayor.

Passed May 22, 1912.

AN ORDER TO BUILD CERTAIN SEWERS.

Ordered, That the board of public works be and is hereby authorized to build certain sewers as follows: Commencing at the easterly terminus of the present sewer in Somerville street east of Beech street; thence in an easterly direction to the Portsmouth Railroad in Somer-

ville street in said city; commencing at the sewer line of Montgomery street; thence in a westerly direction about one hundred fifteen (115) feet in Conant street in said city; and the expense thereof to be charged to the appropriation for new sewers.

Passed May 22, 1912.

AN ORDER RECOMMENDING A SITE FOR AN ENGINE HOUSE TO BE SITUATE SOUTH OF THE PISCATAQUOG RIVER AND THE ERECTION OF SAID ENGINE HOUSE.

Ordered, That the mayor and committee on lands and buildings be and are hereby authorized and empowered to recommend a site for an engine house to be situate south of the Piscataquog river, to call for plans and specifications and do all things necessary to build said engine house, the expense thereof not to exceed the sum of sixteen thousand dollars and to be charged to the appropriation for engine house south of Piscataquog.

Passed June 4, 1912.

AN ORDER TO DISCONTINUE ONE ARC LIGHT AND TO INSTALL SEVEN TUNGSTEN LIGHTS.

Ordered, That the committee on lighting streets be and is hereby authorized and empowered to install seven tungsten lights with proper fixtures for operating the same; the expense thereof to be charged to the appropriation for lighting streets; said lights to be located as follows:

On Willow street in front of Levasseur's residence;
Corner of Oak and Myrtle streets;
Somerset lane, midway between Main and McGregor streets;
On Smyth road between Webster and Sagamore streets, two lights;
Corner of Second and South Main streets.
Nicolet lane, midway between Main and McGregor streets; and that the committee on lighting streets be and is hereby authorized to discontinue the arc light now situate in Nicolet lane.

Passed July 2, 1912.

AN ORDER RELATING TO BAND CONCERTS.

Ordered, That the mayor be and is hereby authorized and empowered to expend the present year for open air band concerts an amount not exceeding three hundred dollars; said sum of three hundred dollars to be divided equally between the Lafayette band, City band, Turner brass band, Cadet band, Lithuanian Kareivies band and First Regiment band; said sum of three hundred dollars to be charged to appropriation for band concerts.

Passed July 2, 1912.

AN ORDER TO BUILD CERTAIN SEWERS.

Ordered, That the board of public works be and is hereby authorized to build certain sewers as follows: Commencing at the southerly terminus of the present sewer in Cartier east back street; thence in a southerly direction fifty (50) feet in Cartier east back street; commencing at the sewer line of Mast street; thence in a westerly direction three hundred (300) feet in D street; commencing at the sewer line of Cass street; thence in an easterly direction two hundred (200) feet in Laurel street; commencing at the sewer line of Beech street; thence in a westerly direction to the easterly terminus of the present sewer east of Union street in Hayward street; commencing at the sewer line of Dubuque street; thence in a westerly direction about two hundred (200) feet in Gates street in said city; and the expense thereof to be charged to the appropriation for new sewers.

Passed July 16, 1912.

AN ORDER AUTHORIZING THE MAYOR TO PURCHASE A SITE FOR AN ENGINE HOUSE SOUTH OF PISCATAQUOG RIVER.

Ordered, That the mayor be and is hereby authorized and empowered to purchase for and in behalf of the city of Manchester a certain lot of land located at the corner of Woodbury and South Main streets in said Manchester and containing ten thousand square feet for a site for an engine house; the price of said land to be not more than five hundred dollars and the expense thereof to be charged to appropriation for engine house south of Piscataquog river.

Passed July 16, 1912.

AN ORDER TO INSTALL TWO TUNGSTEN LIGHTS.

Ordered, That the committee on lighting streets be and is hereby authorized and empowered to install two tungsten lights with proper fixtures for operating the same; the expense thereof to be charged to the appropriation for lighting streets; said lights to be located as follows:

On Laurel street half way between Lincoln and Wilson streets.
Corner of West North and Chandler streets.

Passed August 20, 1912.

AN ORDER RELATING TO THE REMOVAL OF THE PUBLIC COMFORT IN THE REAR OF CITY HALL AND THE CONVENIENT STATION IN THE SOUTHERLY PART OF MERRIMACK COMMON.

Ordered, That the superintendent of buildings be and is hereby authorized and empowered to remove the old public comfort situate in

the rear of city hall, also to remove the old convenient station situate in the southwesterly part of Merrimack common; the expense thereof to be charged to the appropriation for repairs of public buildings.

Passed August 20, 1912.

AN ORDER TO BUILD A NEW FIRE STATION, PURCHASE A NEW FIRE ALARM SYSTEM AND PLACE UNDERGROUND THE FIRE-ALARM WIRES.

Ordered, That the special committee on fire-alarm telegraph consisting of the mayor and the committtee on lands and buildings and fire department be and are hereby authorized and empowered to build a fire-proof building for fire-alarm purposes upon the old part of the central fire station; to purchase and install therein a Gamewell fire-alarm system; to place underground the fire-alarm wires and do all things necessary to properly build and equip said building, the expense thereof not to exceed the appropriation therefor and to be charged to appropriation for building a new fire station, purchasing a new fire-alarm system and placing underground the fire-alarm wires.

Passed August 26, 1912.

AN ORDER TO PURCHASE AN AUTOMOBILE LADDER TRUCK FOR ENGINE HOUSE SOUTH OF PISCATAQUOG RIVER.

Ordered, That the mayor and committee on fire department be and are hereby authorized and empowered to purchase an automobile ladder truck for engine house south of Piscataquog river, the cost of the same not to exceed six thousand dollars; the expense thereof to be charged to appropriation for automobile ladder truck for engine house south of Piscataquog river.

Passed August 26, 1912.

AN ORDER RELATING TO EXPENSES INCURRED BY CHARLES H. FRENCH, SUPERINTENDENT OF FIRE-ALARM TELEGRAPH AND WILLIAM BROPHY, EXPERT, IN CONNECTION WITH THE NEW FIRE-ALARM TELEGRAPH SYSTEM.

Ordered, That the expenses incurred by Charles H. French, superintendent of fire-alarm telegraph, in inspecting the cable factories of the different companies bidding on cable for the underground fire-alarm system in the sum of fifty-five dollars and ninety-five cents, and the expenses of William Brophy for services as expert in connection with the proposed new fire-alarm telegraph system in the sum of twenty-seven dollars and fifty cents be and the same are hereby approved and paid, said expenses to be charged to appropriation known as incidental expenses.

Passed August 26, 1912.

AN ORDER TO BUILD A CERTAIN SEWER IN WAYLAND AVENUE, MAMMOTH ROAD TO REVERE AVENUE.

Ordered, That the board of public works be and is hereby authorized to build a certain sewer as follows: Commencing at the sewer line of Mammoth road and thence in an easterly direction to the sewer line of Revere avenue in Wayland avenue in said city and the expense thereof to be charged to the appropriation for new sewers.

Passed September 17, 1912.

AN ORDER RELATING TO BAND CONCERTS.

Ordered, That the mayor be and is hereby authorized and empowered to secure the service of the Tadeusz Kosciuszko Polish band for a band concert to be arranged by the mayor and that the same be charged to the appropriation for band concerts, the expense thereof not to exceed the sum of fifty dollars ($50.00).

Passed September 17, 1912.

AN ORDER TO INSTALL THREE TUNGSTEN LIGHTS.

Ordered, That the committee on lighting street be and is hereby authorized and empowered to install three tungsten lights with proper fixtures for maintaining the same, the expense thereof to be charged to the appropriation for lighting streets; said lights to be located as follows:

On Webster street, midway between Elm street and River road.
On Willow street at lower end of Driving park.
At the corner of Frederick and Second streets.

Passed September 27, 1912.

AN ORDER TO INSTALL TWO TUNGSTEN LIGHTS.

Ordered, That the committee on lighting streets be and is hereby authorized and empowered to install two tungsten lights with proper fixtures for maintaining the same, the expense thereof to be charged to the appropriation for lighting streets; said lights to be located as follows:

Corner of Salmon and Ash streets.
On Brown avenue opposite residence of William Brooks.

Passed October 15, 1912.

AN ORDER TO BUILD CERTAIN SEWERS.

Ordered, That the board of public works be and is hereby authorized to build certain sewers as follows: Commencing at the sewer line of

East High street and thence in a southerly direction to the sewer line of Lowell street in Burgess street; commencing at Baker street and thence in a southerly direction two hundred (200) feet southerly in Stevens street; commencing at the sewer line of Milford street and thence in a northerly direction two hundred and ninety-five (295) feet in Brock street; commencing at the northerly terminus of the present sewer in Hubbard street and thence in a northerly direction about two hundred (200) feet in Hubbard street; commencing at the sewer line of Belmont street and thence in an easterly direction to the sewer line of Taylor street in Harvard street; commencing at the sewer line of Longwood avenue and thence in a southerly direction to the sewer line of Candia road in Revere avenue in said city; and the expense thereof to be charged to the appropriation for new sewers.

Passed November 19, 1912.

AN ORDER TO BUILD A CERTAIN SEWER IN BEECH STREET, NORTH STREET TO SALMON STREET.

Ordered That the board of public works be and is hereby authorized to build a certain sewer as follows: Commencing at the sewer line of North street and thence in a southerly direction to the sewer line of Salmon street in Beech street in said city, and the expense thereof to be charged to the appropriation for new sewers.

Passed December 3, 1912.

AN ORDER TO INSTALL FOUR TUNGSTEN LIGHTS.

Ordered, That the committee on lighting streets be and is hereby authorized and empowered to install four tungsten lights with proper fixtures for operating the same, the expense thereof to be charged to appropriation for lighting streets; said lights to be located as follows:

Corner of Avon and Sylvester streets.
Corner of Bell and Union streets.
Corner of Conant and North Main streets.
Corner of Taylor street and Holly avenue.

Passed December 17, 1912.

AN ORDER RELATING TO OBTAINING THE PORTRAITS OF FORMER MAYOR EUGENE E. REED AND MAYOR EDWARD C. SMITH.

Ordered, That the mayor be and is hereby authorized to have prepared portraits of former Mayor Eugene E. Reed and of Mayor Edward C. Smith, the work to be done by competent artists and said portraits to be similar to those of former mayors, and when finished to be placed upon the walls of the aldermanic chamber, the expense thereof to be charged to the appropriation for incidental expenses.

Passed December 17, 1912.

AN ORDINANCE REPEALING SECTION 22 OF CHAPTER 6 OF THE LAWS AND ORDINANCES OF THE CITY OF MANCHESTER RELATING TO MONEY PAID TO FIRE COMPANIES FOR PRINTING.

Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:

SECTION 1. Section 22 of chapter 6 of the Laws and Ordinances of the City of Manchester, relating to money paid to fire companies for printing, is hereby repealed and sections 23, 24, 25, 26, 27, 28, 29, 30 and 31 are hereby made sections 22, 23, 24, 25, 26, 27, 28, 29 and 30 respectively.

SECT. 2. This ordinance shall take effect upon its passage.

Passed January 9, 1912.

AN ORDINANCE IN AMENDMENT OF SECTION 20 OF CHAPTER 19 OF THE LAWS ANB ORDINANCES OF THE CITY OF MANCHESTER RELATING TO THE ERECTION OF A PORTE COCHERE OVER THE SIDEWALK IN CONCORD STREET IN FRONT OF THE JOLLIET CLUB HOUSE.

Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:

SECTION 1. Amend section 20 of chapter 19 of the Laws and Ordinances of the City of Manchester for the purpose of allowing the Jolliet Club to erect and maintain a porte cochere over the sidewalk in Concord street in said Manchester in front of the Jolliet club house; said porte cochere to be eight feet in width and nine feet in length and the lowest part thereof to be nine feet above the sidewalk, and said porte cochere to be safely attached to said building and strongly supported.

SECT. 2. The intent of this ordinance is to amend section 20 of chapter 19 of the said Laws and Ordinances for the above mentioned purpose and for no other purpose whatsoever.

SECT. 3. This ordinance shall take effect upon its passage.

Passed January 23, 1912.

AN ORDINANCE IN AMENDMENT OF SECTION 10 OF CHAPTER 6 OF THE LAWS AND ORDINANCES OF THE CITY OF MANCHESTER RELATING TO THE SALARY OF THE CITY MESSENGER.

Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:

SECTION 1. Amend section 10 of chapter 6 of the Laws and Ordinances of the City of Manchester in the nineteenth line thereof after

the word "of" by striking out the words "one thousand" and inserting in place thereof the words "twelve hundred," so that said section as amended shall read as follows:

"SECT. 10. The city messenger shall deliver all notices and orders issued by the mayor, the president of the common council, the city clerk, the board of mayor and aldermen, the common council or any committee of either of these boards, when so requested. He shall seasonably notify members of all meetings of committees of the board of mayor and aldermen and common council, school committee, and engineers, when requested, and of all special and regular meetings of the board of mayor and aldermen, of common council and school committee. He shall be superintendent of the city hall building and of all janitors appointed by the board of mayor and aldermen. He shall at all times perform any duties connected with the building or city government when requested by the mayor, the board of mayor and aldermen, the common council, or any member thereof. He shall receive in full for all his services the sum of twelve hundred dollars per annum payable in equal semi-monthly payments."

SECT. 2. This ordinance shall take effect upon its passage and all ordinances or parts of ordinances inconsistent therewith are hereby repealed.

Passed February 14, 1912.

AN ORDINANCE IN AMENDMENT OF SECTION 23 OF CHAPTER 19 OF THE LAWS AND ORDINANCES OF THE CITY OF MANCHESTER, RELATING TO THE HITCHING OF HORSES TO TREES.

Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:

SECTION 1. Amend section 23 of chapter 19 of the Laws and Ordinances of the City of Manchester by inserting in the fifth line thereof after the words "or public place," the words "or shall hitch any horse or other draft animal to any tree standing in any street, highway or public place, or shall so hitch any such horse or other draft animal so that it may do injury to any such tree," so that said section, as amended, shall read as follows:

"SECT. 23. No person shall wantonly injure or deface any building, fence, wall, post, sign-board, sign, lamp-post, or lamp or lantern thereon; or shall wantonly cut or injure any tree standing in any street, highway, or public place; or shall hitch any horse or other draft animal to any tree standing in any street, highway or public place or shall so hitch any such horse or other draft animal so that it may do injury to any such tree; or shall rob any garden or field of fruit or vegetables; or shall wantonly injure any trees, shrubs, or bushes growing in any street, common, square, garden, field or yard; or shall, without permission, climb on or over any fence of any garden or yard."

SECT. 2. This ordinance shall take effect upon its passage, and all ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Passed May 22, 1912.

AN ORDINANCE IN AMENDMENT OF SECTIONS 20 AND 21 OF CHAPTER 6 OF THE LAWS AND ORDINANCES OF THE CITY OF MANCHESTER, RELATING TO SALARIES OF THE MEMBERS OF THE MANCHESTER FIRE DEPARTMENT.

Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:

SECTION 1. Amend sections 20 and 21 of chapter 6 of the Laws and Ordinances of the City of Manchester by striking out the whole of said sections and inserting in place thereof the following sections:

"SECT. 20. The chief engineer of the fire department shall have charge of all fire department apparatus, horses, stables, and property of every description belonging to the department; he shall attend to all duties appertaining to the fire department, and shall receive in full for his services the sum of twenty-two hundred dollars per annum to be paid semi-monthly. Each assistant engineer shall receive the sum of three hundred dollars per annum in full for his services, and for all duties appertaining to his office, to be paid in equal quarterly payments.

"The chief engineer and assistant engineers shall elect one of their number clerk, who shall record the proceedings of the board, and do such other things as shall be required of him by the board, and shall receive in full for his services as such clerk, the sum of seventy-five dollars per annum, payable quarterly.

"SECT. 21. The compensation of the several hook-and-ladder, hose, steam fire engine and chemical engine companies, who shall personally perform all the duties required by law, shall be as follows: permanent captains of fire companies, each, eleven hundred dollars per annum; permanent engineers of fire companies, each, ten hundred and fifty dollars per annum; other permanent men of fire companies, each, eight hundred dollars per annum for first year, nine hundred dollars per annum for second year, and one thousand dollars per annum for third year and thereafter, all payable semi-monthly. Call engineers of steamers, each, two hundred and thirteen dollars per annum; lieutenants of fire companies, each, one hundred and ninety-eight dollars per annum; clerks of fire companies, each, one hundred and ninety-eight dollars per annum; all other members of fire companies, each, one hundred and eighty-eight dollars per annum; all payable in equal semi-annual payments on the first days of January and July.

"Whenever a substitute, except a spare driver, so called, is employed by a permanent fireman, so called, he shall receive the same compen-

sation as the said permanent fireman, to be paid by the city treasurer, upon voucher of chief engineer duly approved by the committee on accounts."

SECT. 2. It is the intent and purpose of this ordinance in placing the salary of "other permanent men of fire companies" at eight hundred dollars for the first year, nine hundred dollars for the second year, and one thousand dollars for the third year and thereafter, that the said provision shall not apply to present permanent men.

SECT. 3. This ordinance shall take effect July 1, 1912, and all ordinances or parts of ordinances inconsistent therewith are hereby repealed.

Passed May 22, 1912.

AN ORDINANCE IN AMENDMENT OF SECTION 5 OF CHAPTER 34 OF THE LAWS AND ORDINANCES OF THE CITY OF MANCHESTER, RELATING TO THE COLLECTION OF TAXES.

Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:

SECTION 1. Amend section 5 of chapter 19 of the Laws and Ordinances of the City of Manchester in the third line thereof by striking out the word "September" and inserting in place thereof the word "October," so that said section, as amended, shall read as follows:

"SECT. 5. All taxes due the city shall be deemed due and payable at the collector's office immediately after the first of October, and earlier if in the judgment of the collector, the collection of said taxes would be jeopardized by such delay. The collector shall give notice to all persons whose taxes due the city remain unpaid, and if such taxes shall not be paid within fourteen days thereafter, together with twenty cents for such notice, the collector shall proceed to collect the same according to section 19, chapter 60 of the Public Statutes."

SECT. 2. The intent of this ordinance is to extend the date when taxes shall be due from September first to October first in the year 1912 and for no other year.

SECT. 3. This ordinance shall take effect upon its passage.

Passed July 2, 1912.

AN ORDINANCE REPEALING AN ORDINANCE IN AMENDMENT OF SECTION 290 (A) OF THE BUILDING CODE OF THE CITY OF MANCHESTER ENTITLED "FIREPROOF CONSTRUCTION," RELATING TO THE R. G. SULLIVAN CIGAR FACTORY.

Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:

SECTION 1. The ordinance passed September 5, 1911, in amendment of section 290 (a) of the building code of the city of Manchester, en-

titled "Fireproof construction," relating to the R. G. Sullivan cigar factory, is hereby repealed.

SECT. 2. This ordinance shall take effect upon its passage.

Passed July 2, 1912.

AN ORDINANCE RELATING TO THE LICENSING OF NEWSBOYS AND BOOTBLACKS.

Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:

SECTION 1. No person shall, in any street or public place of the city of Manchester, work as a bootblack, or sell or expose for sale, any newspapers, books, pamphlets or magazines, unless there shall first have been issued to him a badge, as hereinafter provided, nor unless he shall comply with the terms under which such badge shall be issued.

SECT. 2. The truant officers shall issue all badges in accordance with the provisions of this ordinance. They shall issue no badges except upon the application of the parent or guardian or of some responsible citizen of the city of Manchester if the applicant is under fourteen years of age. Upon receipt of the said application properly executed, the said truant officers shall thereupon issue a badge and they shall further keep a record in a book provided for that purpose showing the name and age of the applicant and the date of issuing, and they shall retain properly filed all documents necessary to support the said record. Such badge shall be of a suitable design approved by the board of mayor and aldermen and the applicant shall make a deposit of fifty cents for the same, to be returned upon the surrender of the badge.

SECT. 3. The said applicant shall be a resident of the city of Manchester and shall conform to the laws of the state of New Hampshire, the ordinances of the city of Manchester, and the regulations of the board of mayor and aldermen of said city; he shall surrender his badge to the truant officers when notified that his license has been revoked; shall not transfer nor loan his badge nor furnish any unlicensed persons with newspapers or the like; shall not, unless at least fourteen years of age, sell newspapers or the like after nine o'clock in the evening except on days of national, state and city elections; shall not at any time while so working or selling fail to wear conspicuously in sight the badge issued to him as aforesaid.

SECT. 4. Any person who violates any of the aforesaid regulations may have his license revoked by the board of mayor and aldermen upon the complaint of any citizen or public officer and be subject to a fine of not less than one dollar nor more than five dollars for each offense.

SECT. 5. This ordinance shall take effect April 1, 1912, provided the same is approved by the school board of the city of Manchester.

Passed July 19, 1912.

AN ORDINANCE RELATING TO LICENSING PRIVATE COLLECTORS OF GARBAGE.

Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:

SECTION 1. No person or persons, other than those duly employed by the scavenger department of the board of public works of the city of Manchester, shall set up, employ or use any team, wagon, sleigh, or other vehicle for gathering or collecting garbage, swill, offal, or other refuse within the limits of the city without first obtaining, for each vehicle so used a license from the board of public works, who shall grant such license upon application, under such restrictions and regulations as it may prescribe, and it shall assign to each vehicle so licensed a number, and a record of such license shall be kept by the clerk. Every person obtaining such a license shall pay therefor the sum of fifty cents for each such vehicle, for the use of the city. Such license may be revoked at any time for any violation of the provisions of this section or for other good cause by the board of mayor and aldermen. Every wagon or other vehicle so licensed shall be conspicuously marked with the number assigned to it by the board of public works, in metallic figures not less than one and one half inches long, the same to be furnished by the clerk, and the name of the owner shall be plainly displayed on the wagon or other vehicle.

SECT. 2. Every person licensed according to the preceding section shall not spill or scatter any garbage, swill, offal or other refuse in or upon any street, lane, or other highway in said city.

SECT. 3. Any person who shall violate any of the provisions of this chapter shall be fined not exceeding ten dollars.

SECT. 4. This ordinance shall take effect upon its passage and all ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Passed July 19, 1912.

AN ORDINANCE IN AMENDMENT OF SECTIONS 52, 312 AND 552 OF THE BUILDING CODE OF THE CITY OF MANCHESTER.

Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:

SECTION 1. Amend section 52 of the building code of the city of Manchester by striking out the whole of said section and inserting in place thereof the following:

"SECT. 52. The height of buildings shall be defined as the perpendicular distance measured on the center line of its principal front from the established or natural grade to the highest point of the roof of the building. If the total fall of grade on any side extends ten feet in the length of the building, the height shall be measured at the lowermost corner; and when the height of a building is limited, it shall be terraced or stepped off at every ten feet change of grade."

SECT. 2. Amend section 312 of the building code in the fifth line thereof after the word "than" by striking out the word "four" and inserting in place thereof the word "two," so that said section, as amended, shall read as follows:

"SECT. 312. All cast iron, wrought iron, or rolled steel columns, including the lugs and brackets on same, used for vertical supports in the interior of any fire-proof building, or used to support any fire-proof floor, shall be entirely protected with not less than two inches of hard-burnt brickwork, terra cotta, concrete, or other fire-proof material, without any air space next to the metal, securely applied; but no plaster of paris or lime water shall be used for this purpose, nor shall any plaster, whether or not on metal lathing, be considered a part of the covering required."

SECT. 3. Amend section 552 of the building code in the sixth line thereof the words "beads" by adding the following, "but in toilet rooms and bathrooms that are artificially ventilated by fans electrically driven, windows and skylights may be omitted," so that said section, as amended, shall read as follows:

"SECT. 552. In every building hereafter erected the total window or skylight area in every water-closet, compartment, or bathroom shall not be less than three square feet, and no such window or skylight shall be less than one foot in width, measured between stop beads, but in toilet rooms and bathrooms that are artificially ventilated by fans electrically driven, windows and skylights may be omitted. In every such compartment that contains more than three plumbing fixtures, the window of skylight area given above shall be increased one square foot for each additional fixture in excess of three, and when a skylight is provided it shall contain an automatic ventilator or ventilators of an area of at least twenty-eight square inches for each fixture."

SECT. 4. This ordinance shall take effect upon its passage.

Passed August 20, 1912.

AN ORDINANCE IN AMENDMENT OF SECTION 216 OF THE BUILDING CODE OF THE CITY OF MANCHESTER.

Be it ordained by the Board of Mayor and Aldermen of the City of Manchester, as follows:

SECTION 1. Amend section 216 of the building code in the first line thereof after the word "rooms" by striking out the words "and smoke houses," and in the sixth line thereof after the word "rooms" by striking out the words "and smoke houses," so that said section, as amended, shall read as follows:

"SECT. 216. Boiler and fuel rooms, which may hereafter be constructed, shall be located not less than eight feet distant from any other building except engine rooms and shall be built throughout of incombustible material.

"All the openings to such boiler and fuel rooms, if same are located within thirty feet of any other building except engine room shall have shutters and doors of metal, or wood covered with metal on both sides and edges.

"Boiler and fuel rooms, when constructed in buildings, shall be separately inclosed in brick walls so arranged that all openings between them and other parts of the buildings will be securely closed with fire doors at the end of each day's work."

SECT. 2. This ordinance shall take effect upon its passage.

Passed August 26, 1912.

INDEX.

INDEX.

A

Page

Amoskeag cemetery 122
Animal Rescue league 144
Appropriations for 1912 by city council 148
Appendix, school 369
Assessors' department 51
Assets, statement and inventory of 182, 186
Auditor, city, report of 23
Auditor's department 54

B

Band concerts 142
Board of public works 55
water commissioners, organization of 215
report of 216
health, report of 315
Bonded debt, tabular statement of 174, 175
annual interest charge 177
Books and stationery 124
Boys' club 147
Bridges 70
Brown-tail and gypsy moth 83
Building department 53

C

Care of schoolrooms 128
city clocks 112
school clocks 135
Celebration of Independence Day 144
Christian association, Young Men's 147
Churches, etc., valuation of, exempt from tax 162
City auditor's department 54
report 23
engineer, report of 487
hall 36
library 93
report of trustees of 291
treasurer's report 309
librarian's report 292
donations to 301

Page
City officers' salaries 49
officials, list of 3–20
teams 71
treasurer's report 23–26
yard 82
Commons 77
Contingent expenses 126
County tax 143
Cutting and trimming trees 84

D

Damage of land taken for highways 61
Debt, payment of funded 33
bonded, statement of 174, 175
Decoration of soldiers' graves 143
Derryfield and Stark parks 78, 79
District Nursing association 147

E

Electric lights, location of 189, 210
Elliot hospital 145
Elm leaf beetle 84
Engineer's department 81
Evening schools 130
school, mechanical drawing 131
Exempted from tax, property 166
Expenses, incidental 39
mayor's 55
contingent 126

F

Farm, paupers off 135
Fires, list of 413
Fire department 94
report of chief engineer 399
value of personal property 465
names and residences of members 473, 483
location of fire-alarm boxes 406
Fire-alarm telegraph 99
Free text-books 132
Fuel 126
Furniture and supplies 124

G

Grading for concrete 66
Graduates High school 383
Graves, decoration of soldiers' 143

H

Page
Health department 88
board of, report of 315
inspectors of, report of 336, 344
Highways, new 64
watering 61
paving 63
macadamizing 64
grading for concrete on 66
lighting 86
repairs of 57
Home, Women's Aid 146
Hospital, Elliot, free beds 145
Sacred Heart 145
Notre Dame de Lourdes 145
Hospice St. Vincent de Paul 145
Hydrant service 101

I

Incidental expenses 39
Indigent soldiers 141
Inspector of buildings, report of 555
Interest 33
annual charge, bonded debt 177
Inventory of assets 182
Infant asylum 145

L

Land for Parker school 109
Laws relating to exemptions 161
Lighting streets 86
Library, city 93
Lafayette park 80

M

Macadamizing streets 64
Machine sweeping 69
Manual training 134
equipment 134
Mayor's incidentals 55
Mercy Home 146
Merrill yard 123
Militia 143
Miscellaneous playgrounds 81
Money unappropriated 34
Municipal receipts and expenditures 27

N

Page
New fire-alarm and building 112
New highways 64

O

Orders, ordinances and resolutions 777
Orphelinat St. Pierre 145

P

Parker common 80
Parks, Derryfield and Stark 78, 79
Parsonages, valuation of, exempt from taxation 166
Paupers off the farm 135
Paving streets 63
Payment of funded debt 33
Pianos 135
Pine Grove cemetery 118
Plumbing examiners, report of 340
expenses 142
Police department, station 104
court 105
commission 101
Printing and stationery 38
advertising 124
Property account, real and personal 182
Prout park 80
Public wharf, Merrimack river 85
Purchase of land sold for taxes 141

R

Repairs of buildings 105
highways 57
Report of board of water commissioners 216
superintendent of water-works 219
city engineer 487
city physician 595
city solicitor 561
chief engineer fire department 399
trustees of city library 291
overseer of the poor 599
subtrustees of Valley cemetery 568
Pine Grove cemetery 565
Amoskeag cemetery 569
treasurer of cemeteries 570
treasurer of cemetery fund 573
treasurer of sinking fund 583

Page
Report of board of public works..... 613
committee on sewers and drains..... 515
committee on streets..... 509
school superintendent 347
board of health..... 315
city auditor 23
city treasurer 23
Real and personal estate owned by the city..... 178, 185
Receipts and expenditures, 1912 27
Revision of ordinances 147
Resolutions, orders, and ordinances..... 777
Rock Rimmon park 81
Rules, etc., relating to bills against the city (auditor's dept.).... 186

S

Sacred Heart hospital 145
Salaries of city officials 49
Sanitary drinking fountain at city hall..... 85
St. Joseph's Boys' orphanage..... 146
St. John's Home 146
St. Patrick's Girls' orphanage..... 146
Scavenger service 67
School department, organization of..... 385
superintendent's report 347
Schoolhouses, new 109
Settlement association 147
Sewers, repairs of 74
new 75
Sinking fund 34
treasurer's report 583
Snow and ice and cleaning streets 60
Soldiers, indigent 141
Stark and Derryfield parks..... 78, 79
Statement of bonded debt..... 174
State tax 143
Street sweeping 68
Subway comfort 110

T

Tabular statement of taxation by board of assessors..... 154, 155
Taxes due and uncollected..... 160
Tax, state 143
county..... 143
Tax valuations 157
Taxation, appropriation for 1912..... 148
settlement of account tax collector..... 158

Page
Teachers, list of 387
Teachers' salaries 131
Temporary loan 36
Text-books, free 132
Transfers final for 1912..... 152

V

Valley cemetery 121
Valuation and taxes, 1912..... 156

W

Washing and flushing streets..... 70
Watering streets 135
Water-works, superintendent's report..... 219
commissioners' report 216
expenses 112
West Side reading room 147
West Manchester engine house..... 111
Women's Aid Home 146

New Hampshire State Library
3 4677 00227042 4